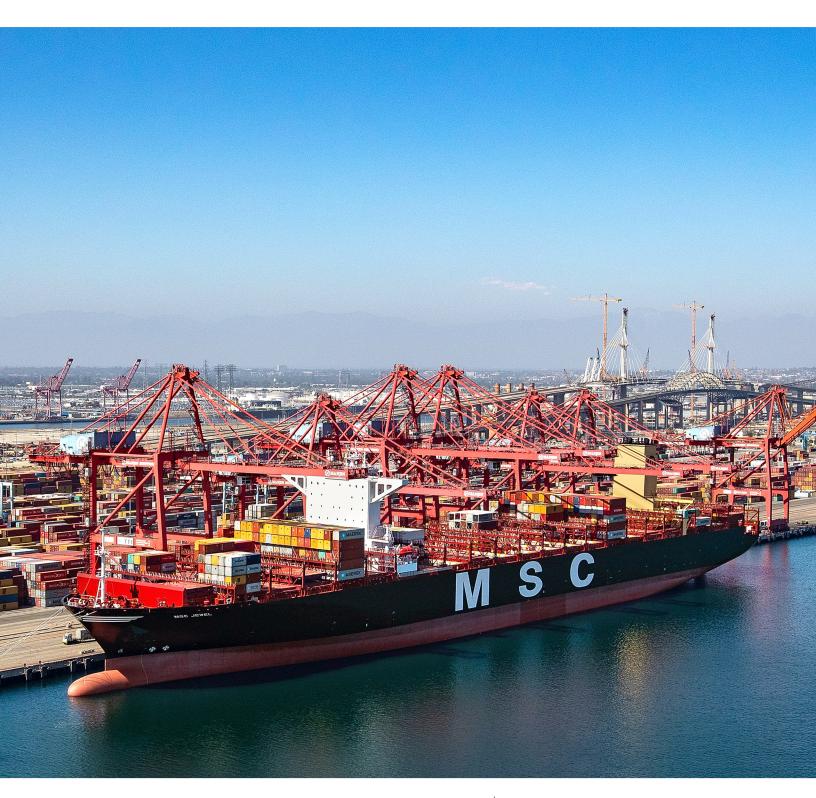


AIR EMISSIONS INVENTORY - 2019



Port of Long Beach 2019 Air Emissions Inventory

Prepared for:



September 2020

Prepared by:

Starcrest Consulting Group, LLC Long Beach, CA





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Port of Long Beach September 2020



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Please note that there may be minor inconsistencies, due to rounding, associated with emission estimates, percent contribution, and other calculated numbers between the various sections, tables, and figures of this report. A detailed Methodology Report is available on the Port's website¹. This 2019Air Emission Inventory correlates with Version 1 of the Methodology Report. There were no updates to methodology.

EXECUTIVE SUMMARY

2019 Port of Long Beach Air Emissions Inventory Results

The Port of Long Beach 2019 Air Emissions Inventory results and a comparison to the Port's baseline 2005 air emissions inventory are presented in Table ES.1. Greenhouse gas emissions (CO₂e) are shown in metric tons (MT) per year; all other pollutants are shown in tons per year.

Table ES.1: 2005-2019 Air Emissions Comparison by Source Category

	PM ₁₀	PM _{2.5}	DPM	NO_x	SO_x	CO	HC	CO_2e
	tons	tons	tons	tons	tons	tons	tons	MT
2005								
Ocean-going vessels	720	577	605	6,726	6,952	537	236	394,186
Harbor craft	45	41	45	1,107	5	294	70	44,746
Cargo handling equipment	47	44	47	1,289	11	398	65	103,710
Locomotives	43	40	43	1,273	76	179	66	60,579
Heavy-duty vehicles	205	196	205	5,273	37	1,523	318	391,610
Total	1,060	898	945	15,667	7,081	2,931	755	994,832
2019								
Ocean-going vessels	83	78	62	3,983	209	336	151	291,774
Harbor craft	22	20	22	637	1	458	69	51,698
Cargo handling equipment	4	4	3	274	1	697	29	109,052
Locomotives	21	20	21	592	1	135	33	47,239
Heavy-duty vehicles	7	7	7	1,127	3	172	28	307,104
Total	138	129	115	6,613	214	1,799	309	806,866
Change between 2005 and	d 2019	(perce	nt)					
Ocean-going vessels	-88%	-86%	-90%	-41%	-97%	-37%	-36%	-26%
Harbor craft	-52%	-52%	-52%	-42%	-87%	56%	-1%	16%
Cargo handling equipment	-91%	-91%	-94%	-79%	-89%	75%	-55%	5%
Locomotives	-50%	-51%	-50%	-53%	-99%	-24%	-51%	-22%
Heavy-duty vehicles	-96%	-96%	-97%	-79%	-92%	-89%	-91%	-22%
Total	-87%	-86%	-88%	-58%	-97%	-39%	-59%	-19%

¹ www.polb.com/environment/air/#emissions-inventory

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Table ES.1 presents the 2019 and 2005 emissions comparison by source category. Reductions were seen in all pollutants when comparing 2019 to 2005, except for CO and CO₂e emissions for harbor craft and CHE. The reductions occurred even with a 14% increase in TEU throughput in 2019 as compared to 2005. Several factors contributed to lower emissions in 2019 compared to 2005. Major highlights by source category include:

- For OGV, the primary reasons for emission reductions are fuel switching, shore power, and Green Flag Program. The International Maritime Organization (IMO) North American Emission Control Areas (ECA) which augmented the CARB OGV Fuel Regulation by extending the compliance zone from 24 nautical miles (nm) to 200 nm from the shore, continued to be in effect. In 2019, all engines for OGV continued to use fuel with 0.1% sulfur or lower and the At-Berth Regulation (i.e., shore power) was also in effect.
- ➤ For harbor craft, the emissions in 2019 are lower than 2005 emissions due to the repowers that have occurred in the last few years as required by the CARB Harbor Craft Regulation or funding incentives, removal of older vessels due to attrition, and more efficient operations. The increase in CO is related to an increase in Tier 2 and 3 engines that have higher CO emission rates compared to pre-Tier 2 and increase in activity. There are no CO₂ standards for engines or control measures for harbor craft, therefore, the CO₂e emissions increased along with increased activity.
- For CHE, implementation of CAAP measures and CARB's Cargo Handling Equipment Regulation, along with funding incentives, resulted in replacement of older equipment with cleaner units, retrofits, and repowers, combined with efficiency in operations, led to lower emissions. The increase in CO₂e reflects lack of lower emission standards or emission control measures and increased activity.
- For locomotives, the decreases in fleet-wide emissions from line haul locomotives are due to meeting the terms of the memorandum of understanding (MOU) with CARB, and the replacement of older switching locomotives with new low-emission and ultra-low emission switchers.
- For HDV, the 2012 implementation of the final phase of the Port's Clean Truck Program (CTP) resulted in significant turnover of older trucks to newer and cleaner trucks as compared to 2005.

Table ES.2 summarizes and compares vessel arrivals and containerized cargo throughput in twenty-foot equivalent units (TEU) at POLB in 2005 and 2019. Relative to 2005 levels, containerized cargo throughput is up 14%, while overall containership arrivals to POLB are down 22%. Indicative of the larger vessels calling at POLB, the average number of TEU per vessel call is up 57%.

Table ES.2: 2005-2019 Container Throughput and Vessel Call Comparison

Year	Container Throughput (TEU)	All Arrivals	Containership Arrivals	Average TEU per Call
2005	6,709,818	2,690	1,332	5,037
2019	7,632,032	2,104	967	7,892
Change	14%	-22%	-27%	57%

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Emissions Metrics

To track operational efficiency improvements and the effectiveness of the emissions reduction strategies and measures, emissions are also estimated in total emissions per unit of cargo handled through the Port. Table ES.3 compares the tons of emissions per 10,000 TEU in 2005 and 2019.

Table ES.3: 2005-2019 Emissions Efficiency Metric Comparison, tons per 10,000 TEU

Year	PM ₁₀	PM _{2.5}	DPM	NO _x	SO _x	со	нс	CO ₂ e
2005	1.58	1.34	1.41	23.35	10.55	4.37	1.13	1,483
2019	0.18	0.17	0.15	8.66	0.28	2.36	0.41	1,057
Change (%)	-89%	-87%	-89%	-63%	-97%	-46%	-64%	-29%

Progress Towards CAAP Goals

Tables ES.4 and ES.5 summarize the air emissions reductions of DPM, NO_x, and SO_x associated with good movement sources and compared to the established CAAP San Pedro Bay (SPB) Emissions Reduction Standards for 2014 and 2023 from the baseline year 2005.

As a result of the implementation of CAAP measures and regulations, 2019 emission reduction levels of DPM, NO_x, and SO_x surpassed the respective 2014 SPB Emission Reduction Standards. Despite a 14% increase in TEU throughput, the emission reductions achieved in 2019 also surpassed the 2023 DPM and SO_x SPB Emission Reduction Standards and is remarkably close to meeting the 2023 NO_x SPB Emission Reduction Standard.

Table ES.4: 2019 Emissions Reductions Compared to San Pedro Bay CAAP

	2019	2014 Emission	2023 Emission
Pollutant	Actual	Reduction	Reduction
	Reductions	Standard	Standard
DPM	88%	72%	77%
NO_x	58%	22%	59%
SO_x	97%	93%	93%

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Table ES.5: 2005-2019 Emissions Reductions Compared to San Pedro Bay CAAP by Source Category

Category	2005		2019
DPM (tons)			
Ocean-going vessels	605		62
Harbor craft	45		22
Cargo handling equipment	47		3
Locomotives	43		21
Heavy-duty vehicles	205		7
Total	945		115
Cumulative DPM Emission	ns Reduction Achieved in 20	19	88%
CAAP San Pedro Bay DPM	I Emissions Reduction Stan	dards 2014	72%
		2023	77%
NO _x (tons)			
Ocean-going vessels	6,726		3,983
Harbor craft	1,107		637
Cargo handling equipment	1,289		274
Locomotives	1,273		592
Heavy-duty vehicles	5,273		1,127
Total	15,667		6,612
Cumulative NO _x Emission	s Reduction Achieved in 201	9	58%
CAAP San Pedro Bay NO,	Emissions Reduction Stand	lards 2014	22%
	•	2023	59%
SO _x (tons)			
Ocean-going vessels	6,952		209
Harbor craft	5		1
Cargo handling equipment	11		1
Locomotives	76		1
Heavy-duty vehicles	37		3
Total	7,081		214
Cumulative SO _x Emissions	Reduction Achieved in 2019)	97%
CAAP San Pedro Bay SO.	Emissions Reduction Standa	ards 2014	93%
A		2023	93%

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SECTION 1 INTRODUCTION

The Port of Long Beach (Port or POLB) annual activity-based emissions inventories serve as the primary tool to track the Port's efforts to reduce air emissions from goods movement-related sources through implementation of measures identified in the San Pedro Bay Ports Clean Air Action Plan (CAAP) and regulations promulgated at the state and federal levels. To quantify the annual air emissions, the Port relies on operational information provided by Port tenants and operators. Development of the annual air emissions estimates is coordinated with a technical working group (TWG) comprised of representatives from the Port, the Port of Los Angeles, and the air regulatory agencies: U.S. Environmental Protection Agency, Region 9 (EPA), California Air Resources Board (CARB), and the South Coast Air Quality Management District (South Coast AQMD). Through collaboration with the TWG, the ports seek the consensus of the air regulatory agencies regarding the methodologies and information used to develop the emissions estimates.

Emissions from the following goods movement-related emission source categories are evaluated:

- Ocean-going vessels (OGV)
- ➤ Harbor craft
- > Cargo handling equipment (CHE)
- ➤ Rail locomotives
- ➤ Heavy-duty vehicles (HDV)

Exhaust emissions of the following pollutants, including greenhouse gases, are quantified in the inventory:

- Particulate matter (PM) (10-micron, 2.5-micron)
- ➤ Diesel particulate matter (DPM)
- > Oxides of nitrogen (NO_x)
- > Oxides of sulfur (SO_x)
- > Hydrocarbons (HC)
- Carbon monoxide (CO)
- Carbon dioxide equivalent (CO₂e)

Greenhouse gas emissions are presented in units of metric tons (MT) of carbon dioxide equivalents, which weight each gas by its global warming potential (GWP) value relative to CO₂. To normalize these values into a single greenhouse gas value, CO₂e, the GHG emission estimates are multiplied by the following values and summed.²

- \triangleright CO₂ 1
- ➤ CH₄ 25
- N₂O 298

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² U.S. EPA, Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2018, July 2019.



Geographical Domain

Figure 1.1 shows the Port of Long Beach emissions inventory domain. For OGV and harbor craft, the geographical domain lies within the harbor and up to the South Coast Air Basin (SoCAB) overwater boundary, comprised of an over-water area bounded in the north by the southern Ventura County line at the coast and in the south with the southern Orange county line at the coast. For rail locomotives and on-road trucks, emissions are estimated from the Port to the cargo's first point of rest within the SoCAB or up to the basin boundary, whichever comes first.



Figure 1.1: Port of Long Beach Emissions Inventory Domain

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Emissions are estimated for activities within Port terminals and facilities. Figure 1.2 shows the various terminals color coded by terminal type. As an example, container terminals are orange in Figure 1.2.



Figure 1.2: Port of Long Beach Terminals

Port of Long Beach 3 September 2020



SECTION 2 OCEAN-GOING VESSELS

Source Description

Vessels are grouped by the type of cargo they transport:

- > Auto carrier
- Containership
- ➤ General cargo
- Ocean-going tugboat (ATB/ITB)
- ➤ Miscellaneous vessel

- ➤ Bulk carrier
- Cruise vessel
- Reefer vessel
- Roll-on roll-off vessel (RoRo)
- Tanker

Emissions are estimated from vessel main engines (propulsion), auxiliary engines, and auxiliary boilers (boilers). Based on their emissions contribution, the three predominant vessel types calling at the Port in order are: tankers, containerships, and cruise ships.

Emissions Estimation Methodology

The methodology to estimate 2019 emissions from OGVs is described in Section 2 of the San Pedro Bay Ports Emissions Inventory Methodology Report Version 1 (2019)³. The following improvements were made in estimating 2019 OGV emissions:

Added Vessel Boarding Program (VBP) data related to vessel operations collected over the past year since the last published inventory.

Geographical Domain

The geographical domain or overwater boundary for OGVs includes the berths and waterways in the Port proper as shown in Figure 1.2 and all vessel movements within the forty nautical mile (nm) arc from Point Fermin and the SoCAB as shown in Figure 1.1. The northern boundary is the Ventura County line and the southern boundary is the Orange County line. It should be noted that although the overwater boundary extends further off the coast to incorporate the South Coast air quality modeling domain, most of the vessel movements occur within the 40 nm arc.

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³ San Pedro Bay Ports Emissions Inventory Methodology Report, Version 1 – 2019 (April 2019), www.polb.com/environment/air/#emissions-inventory



Data and Information Acquisition

The primary sources of data and operational information for OGV were obtained from:

- Marine Exchange of Southern California
- Vessel Speed Reduction Program
- > Jacobsen Pilot Service
- > IHS Markit Maritime Data
- Port Vessel Boarding Program (VBP)
- ➤ Port tanker loading information
- > Terminal shore power activity data, including usage of alternative at-berth emission control technology (AMECS)

During the 2019 EI process, uncertainty regarding the vessel maximum speed values that are provided by IHS Markit Maritime Data were identified. The Ports and environmental agencies that are part of the Emissions Inventory Technical Working Group are aware of the issue and are working to understand the issue and decide on a path forward. The goal is consistency in the methodology used to estimate OGV emissions. Because the evaluation is on-going, as of this report date, no change has been made to the use of the IHS speed data for the 2019 OGV emissions estimation.

Emission Estimates

Summaries of the 2019 OGV emissions estimates are presented in Tables 2.1 through 2.3. Due to rounding, values may not add up to totals provided.

Table 2.1: 2019 Ocean-going Vessel Emissions by Vessel Type, tons and metric tons

Vessel Type	PM ₁₀	PM _{2.5}	DPM	NO_x	SO_x	CO	HC	CO_2e
	tons	tons	tons	tons	tons	tons	tons	MT
Auto Carrier	2.9	2.8	2.8	163.6	5.5	15.1	6.9	7,618
Bulk	4.1	3.9	3.6	222.4	9.2	19.3	6.4	12,791
Containership	28.1	26.4	22.4	1,693.6	67.1	129.8	71.7	93,927
Cruise	9.8	9.2	9.1	476.6	19.0	40.3	16.1	26,420
General Cargo	1.0	0.9	0.9	46.6	2.0	4.4	1.8	2,784
Ocean Tugboat (ATB/ITB)	0.2	0.2	0.2	8.9	0.3	0.8	0.3	455
Miscellaneous	4.4	4.2	4.1	227.0	8.8	18.2	6.7	12,159
RoRo	0.7	0.6	0.0	9.9	3.1	1.0	0.5	4,294
Tanker	32.0	30.1	18.8	1,133.9	93.9	107.5	40.2	131,236
Total	83.3	78.4	61.8	3,982.6	208.8	336.5	150.5	291,774

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The emissions for the CARB-certified capture and control system to treat emissions from auxiliary engines are included in the auxiliary engine emissions in Tables 2.2 and 2.3.

Table 2.2: 2019 Ocean-going Vessel Emissions by Emissions Source, tons and metric tons

Engine Type		PM _{2.5}		NO _x	**	CO	HC	CO ₂ e
A '11' T' '	tons	tons	tons	tons	tons	tons	tons	MT
Auxiliary Engine	39.7	37.4	39./	1,837.5	/1.4	173.6	62.8	99,092
Auxiliary Boiler	21.4	20.2	0.0	310.8	96.1	31.5	15.7	134,849
Main Engine	22.1	20.8	22.1	1,834.3	41.3	131.4	72.0	57,832
Total	83.3	78.4	61.8	3,982.6	208.8	336.5	150.5	291,774

Table 2.3: 2019 Ocean-going Vessel Emissions by Mode, tons and metric tons

Mode	Engine Type	PM_{10}	PM _{2.5}	DPM	NO_x	SO_x	CO	HC	CO_2e
		tons	tons	tons	tons	tons	tons	tons	MT
Transit	Auxiliary Engine	9.2	8.6	9.2	443.3	16.4	39.6	14.4	22,703
Transit	Auxiliary Boiler	0.5	0.5	0.0	7.8	2.4	0.8	0.4	3,380
Transit	Main Engine	19.6	18.4	19.6	1,656.8	37.9	114.4	57.7	53,086
Total Transit		29.3	27.6	28.7	2,107.9	56.7	154.8	72.5	79,169
Maneuvering	Auxiliary Engine	2.7	2.6	2.7	129.3	4.9	11.8	4.3	6,779
Maneuvering	Auxiliary Boiler	0.2	0.2	0.0	3.4	1.0	0.3	0.2	1,455
Maneuvering	Main Engine	2.6	2.4	2.6	177.5	3.4	17.0	14.3	4,746
Total Maneuvering		5.5	5.2	5.3	310.2	9.3	29.2	18.8	12,980
Hotelling at-berth	Auxiliary Engine	17.4	16.4	17.4	818.3	31.6	77.4	27.8	43,984
Hotelling at-berth	Auxiliary Boiler	16.7	15.7	0.0	242.4	75.0	24.6	12.3	105,162
Hotelling at-berth	Main Engine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Total Hotelling at-berth		34.1	32.1	17.4	1,060.7	106.6	102.0	40.1	149,146
Hotelling at-anchorage	Auxiliary Engine	10.4	9.8	10.4	446.5	18.5	44.7	16.3	25,626
Hotelling at-anchorage	Auxiliary Boiler	3.9	3.7	0.0	57.3	17.7	5.8	2.9	24,853
Hotelling at-anchorage	Main Engine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Total Hotelling at-ancho	orage	14.3	13.5	10.4	503.8	36.2	50.5	19.2	50,479
Total		83.3	78.4	61.8	3,982.6	208.8	336.5	150.5	291,774

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Table 2.4 presents the numbers of arrivals, departures, and shifts associated with vessels at the Port in 2019. An arrival is a vessel that arrives from the sea.

Table 2.4: 2019 Total OGV Activities

Vessel Type	Arrival	Departure	Shift	Total
Auto Carrier	178	181	34	393
Bulk	186	192	231	609
Bulk - Heavy Load	2	2	1	5
Bulk - Self Discharging	26	26	0	52
Container - 1000	99	98	13	210
Container - 2000	41	41	9	91
Container - 3000	57	56	23	136
Container - 4000	198	199	37	434
Container - 5000	1	1	0	2
Container - 6000	136	138	2	276
Container - 7000	1	1	0	2
Container - 8000	175	175	10	360
Container - 9000	52	52	8	112
Container - 10000	48	46	1	95
Container - 11000	94	91	8	193
Container - 12000	12	12	0	24
Container - 13000	48	48	10	106
Container - 14000	5	5	1	11
Container - 19000	0	1	1	2
Cruise	254	255	2	511
General Cargo	52	58	36	146
Ocean Tugboat (ATB/ITB)	17	13	35	65
Miscellaneous	3	4	5	12
RoRo	1	1	2	4
Tanker - Chemical	110	105	179	394
Tanker - Handysize	6	8	8	22
Tanker - Panamax	63	51	104	218
Tanker - Aframax	101	100	171	372
Tanker - Suezmax	73	71	114	258
Tanker - VLCC	15	16	44	75
Tanker - ULCC	50	48	153	251
Total	2,104	2,095	1,242	5,441

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Actual VBP data, if available, is used to estimate emissions. If actual VBP data is not available, defaults are used. Table 2.5 presents the auxiliary engine load defaults by vessel type and by mode used to estimate emissions in 2019. Auxiliary engines are used to provide electricity to equipment on board the vessel.

Table 2.5: 2019 Average Auxiliary Load Defaults by Mode, kW

Vessel Type	Transit	Maneuvering	Berth	Anchorage
			Hotelling	Hotelling
Auto Carrier	1,079	2,391	1,284	622
Bulk	313	822	210	253
Bulk - Heavy Load	462	1,223	272	253
Bulk - Self Discharging	305	807	179	305
Container - 1000	957	2,245	720	1,000
Container - 2000	985	2,188	1,039	1,012
Container - 3000	787	2,522	652	682
Container - 4000	1,348	2,327	1,048	1,091
Container - 5000	1,333	4,487	1,107	967
Container - 6000	1,518	2,771	930	1,565
Container - 7000	1,220	2,721	845	1,000
Container - 8000	1,849	3,262	1,289	1,210
Container - 9000	1,476	2,236	1,001	1,044
Container - 10000	1,360	1,925	998	1,096
Container - 11000	1,514	2,535	1,300	1,583
Container - 12000	2,059	2,988	1,725	1,725
Container - 13000	2,018	3,604	1,317	1,015
Container - 14000	1,924	2,820	1,600	1,133
Container - 19000	1,933	2,100	1,400	1,600
General Cargo	421	1,060	572	180
Ocean Tugboat (ATB/ITB)	76	202	99	76
Miscellaneous	793	2,100	467	200
RoRo	132	396	229	132
Tanker - Chemical	611	833	967	402
Tanker - Handysize	559	768	605	560
Tanker - Panamax	596	801	679	379
Tanker - Aframax	576	719	724	474
Tanker - Suezmax	860	1,288	2,509	773
Tanker - VLCC	1,080	1,486	1,171	1,080
Tanker - ULCC	1,035	1,404	1,204	1,020

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Auxiliary engine loads are typically higher during maneuvering than at berth or during transit. Diesel electric crude oil tankers have significant auxiliary equipment/load differences than typical motor vessels. Specific auxiliary engine loads, collected from VBP, are used for diesel electric tankers.

For all cruise ships (diesel electric and non-diesel electric) that visited the Port in 2019, the auxiliary engine load defaults are listed in Table 2.6.

Table 2.6: Cruise Ship Average Auxiliary Engine Load Defaults, kW

Passenger			Berth
Range	Transit	Maneuvering	Hotelling
<1,500	3,994	5,268	3,069
1,500 < 2,000	7,000	9,000	5,613
2,000 < 2,500	11,000	11,350	6,900
2,500 < 3,000	9,781	8,309	6,089
3,000 < 3,500	8,292	10,369	8,292
3,500 < 4,000	9,945	11,411	10,445

Table 2.7 presents the load defaults for the auxiliary boilers for diesel electric cruise ships and tankers. In 2019, all of the cruise vessels that visited the Port were diesel electric.

Table 2.7: 2019 Auxiliary Boiler Load Defaults by Mode for Diesel Electric Vessels, kW

Vessel Type	Transit Man	euvering	Berth Hotelling	Anchorage Hotelling
Cruise - Diesel-Electric	0	0	1,414	0
Tanker - Diesel-Electric	0	145	220	220

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Table 2.8 presents the 2019 load defaults for auxiliary boilers by vessel type and by mode. Tankers' boilers produce steam for steam-powered liquid cargo pumps when discharging, operating steam powered inert gas fans, and to heat fuel for pumping. Less steam is needed when liquid cargo is being loaded. Since loading and discharging data was available for the tankers that visited the Port, a lower boiler load of 875 kW was used for tankers known to be loading cargo while at berth, while the higher boiler load listed in the table was used as a default for the tanker calls that were discharging cargo.

Table 2.8: 2019 Auxiliary Boiler Load Defaults by Mode, kW

Vessel Type			Berth	Anchorage
, 60001 2) PC	Transit M	laneuvering	Hotelling	Hotelling
Auto Carrier	87	184	314	305
Bulk	35	94	125	125
Bulk - Heavy Load	35	94	125	125
Bulk - Self Discharging	44	103	132	132
Container - 1000	106	213	273	270
Container - 2000	141	282	361	358
Container - 3000	164	309	403	400
Container - 4000	170	333	461	457
Container - 5000	247	473	579	572
Container - 6000	194	543	643	640
Container - 7000	259	470	623	619
Container - 8000	261	456	629	628
Container - 9000	314	512	574	573
Container - 10000	341	432	588	588
Container - 11000	246	423	574	587
Container - 12000	347	597	672	672
Container - 13000	203	346	573	547
Container - 14000	269	429	697	697
Container - 19000	460	726	761	761
General Cargo	56	124	160	160
Ocean Tugboat (ATB/ITB)	0	0	0	0
Miscellaneous	33	65	96	96
RoRo	67	148	259	251
Tanker - Chemical	59	136	568	255
Tanker - Handysize	144	144	2,586	144
Tanker - Panamax	167	351	3,421	451
Tanker - Aframax	179	438	5,030	375
Tanker - Suezmax	144	191	5,843	503
Tanker - VLCC	240	720	6,000	840
Tanker - ULCC	239	675	6,380	788

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Vessel hotelling times at-berth, regardless of shore power usage, and at-anchorage during 2019 are shown in Tables 2.9 and 2.10. The miscellaneous vessels and RoRos have high hotelling time due to vessels that are home based in the Port, including ready reserve vessels that use shore power.

Table 2.9: 2019 At-Berth Hotelling Times, hours

Vessel Type	Min	Max	Avg
	Hours	Hours	Hours
Auto Carrier	1.4	38.6	12.8
Bulk - General	9.8	191.6	63.7
Bulk - Heavy Load	120.5	151.5	136.0
Bulk - Self Discharging	14.0	150.5	40.0
Container - 1000	6.8	62.8	25.7
Container - 2000	6.9	140.2	50.0
Container - 3000	6.6	70.0	35.3
Container - 4000	0.8	99.6	27.5
Container - 5000	108.1	108.1	108.1
Container - 6000	47.6	123.3	77.8
Container - 7000	85.2	85.2	85.2
Container - 8000	11.0	133.3	69.5
Container - 9000	6.9	119.8	43.6
Container - 10000	61.3	146.8	98.5
Container - 11000	58.9	158.1	93.6
Container - 12000	96.2	159.0	121.3
Container - 13000	33.6	158.8	114.5
Container - 14000	53.4	142.4	100.1
Container - 19000	46.3	46.3	46.3
Cruise	7.3	49.4	12.0
General Cargo	5.0	119.5	33.1
Ocean Tugboat (ATB/ITB)	11.0	70.6	36.3
Miscellaneous	29.3	8,760.0	2,952.2
RoRo	2,368.5	8,759.8	5,815.7
Tanker - Chemical	9.2	181.4	42.5
Tanker - Handysize	19.1	96.3	41.2
Tanker - Panamax	11.0	104.9	41.4
Tanker - Aframax	12.7	121.2	38.7
Tanker - Suezmax	12.5	51.0	25.0
Tanker - VLCC	20.1	49.4	31.5
Tanker - ULCC	13.6	55.8	28.3

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Table 2.10: 2019 At-Anchorage Hotelling Times, hours

			1	Anchorage
Vessel Type	Min	Max	Avg	Activity
	Hours	Hours	Hours	Count
Auto Carrier	1.6	39.6	18.5	16
Bulk - General	1.9	330.5	70.0	194
Bulk - Heavy Load	46.0	46.0	46.0	1
Bulk - Self Discharging	0.0	0.0	0.0	0
Container - 1000	2.5	83.7	28.9	13
Container - 2000	2.1	23.3	12.7	2
Container - 3000	12.7	236.2	99.2	18
Container - 4000	7.7	273.4	74.5	32
Container - 5000	0.0	0.0	0.0	0
Container - 6000	22.9	35.3	29.1	2
Container - 7000	0.0	0.0	0.0	0
Container - 8000	0.7	20.0	9.0	9
Container - 9000	7.8	103.8	38.3	7
Container - 10000	23.8	23.8	23.8	1
Container - 11000	0.8	40.8	17.6	8
Container - 12000	0.0	0.0	0.0	0
Container - 13000	1.2	95.6	31.8	9
Container - 14000	0.0	0.0	0.0	0
Container - 19000	0.0	0.0	0.0	0
Cruise	9.7	9.7	9.7	1
General Cargo	1.3	531.3	71.0	25
Ocean Tugboat (ATB/ITB)	2.7	225.5	57.8	19
Miscellaneous	2.7	107.6	55.1	2
RoRo	0.0	0.0	0.0	0
Tanker - Chemical	1.0	558.8	35.5	123
Tanker - Handysize	4.6	40.0	21.7	6
Tanker - Panamax	1.0	1,197.1	91.1	102
Tanker - Aframax	2.7	585.3	76.5	150
Tanker - Suezmax	3.1	606.2	65.9	103
Tanker - VLCC	7.4	250.7	70.9	34
Tanker - ULCC	1.2	453.6	83.3	116
Total				993

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For this EI, a frequent caller is a vessel that made six or more calls in one calendar year. Table 2.11 shows that 12% of vessels that called the Port in 2019 are frequent callers (i.e. six or more calls/year).

Table 2.11: 2019 Percentage of Frequent Callers

			Percent
Vessel Type	Frequent	Total	Frequent
	Vessels	Vessels	Vessels
Auto Carrier	0	109	0%
Bulk - General	0	165	0%
Bulk - Heavy Load	0	2	0%
Bulk - Self Discharging	2	5	40%
Container - 1000	7	10	70%
Container - 2000	4	6	67%
Container - 3000	4	7	57%
Container - 4000	16	42	38%
Container - 5000	0	1	0%
Container - 6000	11	33	33%
Container - 7000	0	1	0%
Container - 8000	15	39	38%
Container - 9000	2	18	11%
Container - 10000	5	12	42%
Container - 11000	9	18	50%
Container - 12000	0	4	0%
Container - 13000	0	24	0%
Container - 14000	0	3	0%
Container - 19000	0	1	0%
Cruise	4	5	80%
General Cargo	0	40	0%
Ocean Tugboat (ATB/ITB)	1	5	20%
Miscellaneous	0	1	0%
RoRo	0	1	0%
Tanker - Chemical	4	61	7%
Tanker - Handysize	0	2	0%
Tanker - Panamax	0	35	0%
Tanker - Aframax	4	29	14%
Tanker - Suezmax	3	34	9%
Tanker - VLCC	0	13	0%
Tanker - ULCC	0	35	0%
Total	91	761	
Average			12%

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Table 2.12 presents the percent of engine tier by vessel type for arrivals/shift at the Port in 2019. In 2019, one containership and five tanker vessels that visited the Port, met IMO's Tier III NO_x emission standards. NO_x emissions for Tier III vessels are 75% cleaner than Tier II vessels.

Table 2.12: 2019 Percent of OGV Activity by Main Engine Tier and Vessel Type

Vessel Type	IMO	IMO	IMO	IMO	No	Calls
	Tier 0	Tier I	Tier II	Tier III	Tier	Count
Auto Carrier	15%	79%	6%	0%	0%	183
Bulk - General	0.0%	54%	46%	0%	0%	186
Bulk - Heavy Load	50%	50%	0%	0%	0%	2
Bulk - Self Discharging	15%	35%	50%	0%	0%	26
Container - 1000	26%	70%	3%	0%	1%	99
Container - 2000	24%	76%	0%	0%	0%	41
Container - 3000	14%	2%	84%	0%	0%	57
Container - 4000	16%	83%	1%	0%	0%	198
Container - 5000	100%	0%	0%	0%	0%	1
Container - 6000	0%	99%	1%	0%	0%	136
Container - 7000	0%	100%	0%	0%	0%	1
Container - 8000	0%	47%	53%	0%	0%	175
Container - 9000	0%	21%	79%	0%	0%	52
Container - 10000	0%	69%	31%	0%	0%	48
Container - 11000	0%	45%	55%	0%	0%	94
Container - 12000	0%	50%	50%	0%	0%	12
Container - 13000	0%	37%	63%	0%	0%	48
Container - 14000	0%	0%	60%	40%	0%	6
Container - 19000	0%	0%	100%	0%	0%	1
Cruise	81%	18%	1%	0%	0%	255
General Cargo	2%	63%	35%	0%	0%	54
Ocean Tugboat (ATB/ITB)	0%	88%	12%	0%	0%	20
Miscellaneous	100%	0%	0%	0%	0%	3
RoRo	0%	0%	0%	0%	100%	1
Tanker - Chemical	0%	49%	51%	0%	0%	134
Tanker - Handysize	86%	14%	0%	0%	0%	7
Tanker - Panamax	0%	78%	22%	0%	0%	65
Tanker - Aframax	0%	55%	45%	0%	0%	101
Tanker - Suezmax	3%	81%	15%	1%	0%	73
Tanker - VLCC	0%	47%	53%	0%	0%	15
Tanker - ULCC	0%	26%	64%	10%	0%	50
Total	15%	56%	28%	0.4%	0.1%	2,144

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SECTION 3 HARBOR CRAFT

Source Description

Emissions from the following types of diesel-fueled harbor craft were quantified:

- > Assist tugboats
- Crew, supply and work boats
- Ferry vessels
- > Excursion vessels

- ➤ Government vessels
- > Harbor tugboats
- Ocean tugboats

Emissions Estimation Methodology

The methodology to estimate emissions from harbor craft is similar to that used in CARB's emissions inventory for commercial harbor craft emissions operating in California.⁴ The methodology to estimate 2019 emissions from harbor craft is described in Section 3 of the San Pedro Bay Ports Emissions Inventory Methodology Report Version 1 (2019)⁵.

Geographical Domain

Emissions are estimated for harbor craft operating within the South Coast Air Basin over-water boundary.

Data and Information Acquisition

Harbor craft owners and operators were contacted to obtain key physical and operational parameters, including:

- > Type of harbor craft
- > Engine count
- Engine horsepower (or kilowatts) for main and auxiliary engines
- > Engine model year
- > Operating hours in calendar year 2019

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⁴ www.polb.com/environment/air/emissions.asp

⁵ San Pedro Bay Ports Emissions Inventory Methodology Report, Version 1 – 2019 (April 2019), www.polb.com/environment/air/#emissions-inventory



Emission Estimates

Table 3.1 summarizes the estimated harbor craft vessel emissions by vessel type and engine type.

Table 3.1: 2019 Harbor Craft Emissions by Vessel and Engine Type, tons and metric tons

Harbor Craft	Engine Type	PM_{10}	$PM_{2.5}$	DPM	NO_x	SO_x	CO	HC	CO_2e
		tons	tons	tons	tons	tons	tons	tons	MT
Assist tugboat	Auxiliary	0.5	0.4	0.5	15.2	0.0	13.3	2.2	1,495
	Propulsion	5.0	4.6	5.0	138.2	0.1	102.3	14.5	10,892
Assist tugboat Total		5.5	5.1	5.5	153.5	0.1	115.5	16.8	12,386
Crew Boat	Auxiliary	0.1	0.1	0.1	2.1	0.0	1.7	0.5	169
	Propulsion	1.7	1.5	1.7	53.1	0.1	38.5	5.9	4,619
Crew boat Total		1.8	1.6	1.8	55.2	0.1	40.3	6.3	4,788
Excursion	Auxiliary	0.1	0.1	0.1	2.5	0.0	1.7	0.5	171
	Propulsion	0.5	0.5	0.5	17.0	0.0	12.4	1.8	1,338
Excursion Total		0.6	0.6	0.6	19.5	0.0	14.1	2.3	1,509
Ferry	Auxiliary	0.1	0.1	0.1	3.3	0.0	2.6	0.8	282
	Propulsion	4.0	3.7	4.0	122.4	0.1	95.5	13.4	10,388
Ferry Total		4.2	3.8	4.2	125.8	0.1	98.1	14.2	10,670
Government	Auxiliary	0.2	0.1	0.2	6.4	0.0	5.4	0.9	614
	Propulsion	1.1	1.0	1.1	44.7	0.0	39.7	5.5	4,356
Government Total		1.3	1.2	1.3	51.0	0.1	45.1	6.5	4,970
Ocean tugboat Total	Auxiliary	0.2	0.2	0.2	5.4	0.0	4.8	0.8	539
	Propulsion	6.3	5.8	6.3	176.7	0.1	102.9	16.5	12,822
Ocean tugboat Total		6.5	6.0	6.5	182.1	0.2	107.6	17.3	13,361
Harbor tugboat	Auxiliary	0.2	0.2	0.2	5.2	0.0	4.0	0.8	433
	Propulsion	1.5	1.4	1.5	41.0	0.0	30.3	4.3	3,205
Harbor tugboat Total		1.7	1.6	1.7	46.2	0.0	34.3	5.2	3,638
Work boat	Auxiliary	0.0	0.0	0.0	0.3	0.0	0.2	0.1	23
	Propulsion	0.1	0.1	0.1	3.6	0.0	3.1	0.4	351
Work boat Total		0.1	0.1	0.1	3.9	0.0	3.3	0.5	375
Harbor Craft Total		21.7	20.0	21.7	637.2	0.6	458.3	69.0	51,698

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Table 3.2 lists the harbor craft engine count by USEPA marine engine emissions standards tier level and engine type in 2019.

Table 3.2: 2019 Harbor Craft Engine Tier Count

Engine Tier	Auxiliary Engine Count	Propulsion Engine Count	Total Engine Count
TT1			Count
Unknown	2	0	2
Tier 0	3	4	7
Tier 1	2	12	14
Tier 2	39	120	159
Tier 3	85	30	115
Total	131	166	297

Table 3.3 summarizes the energy consumption (kWh) per engine tier for 2019 harbor craft that operated at the port. The kWh for engines with unknown tier are distributed in the various tiers based on the default model year and/or kilowatts used to estimate emissions of unknowns.

Table 3.3: Harbor Craft Energy Consumption by Engine Tier, kWh and %

Engine Tier	2019 kWh	2019 % of Total
Tier 0	101,183	0.1%
Tier 1	6,186,173	7.9%
Tier 2	52,582,476	67.2%
Tier 3	19,329,496	24.7%
Total	78,199,327	100%

Tables 3.4 and 3.5 summarize the characteristics of main and auxiliary engines, respectively, by vessel type operating at the Port in 2019. Averages of the model year, horsepower, or operating hours are used as default values when specific data is not available. Defaults were only used for 0.3% of model year values, 0.3% of horsepower values, and 0.7% of operating hours.

A number of companies operate harbor craft in the harbors of both the Ports of Long Beach and Los Angeles. The activity hours for the vessels that are common to both ports reflect work performed during 2019 within the Port of Long Beach harbor only. For harbor vessels that share the work at both Ports in San Pedro Bay, the total hours are divided equally between the two ports.

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Table 3.4: 2019 Propulsion Engine Characteristics by Harbor Craft Type

Propulsion Engines												
Harbor	Vessel	Engine	Model year]	Horsepower		Annual Operating Hours			
Craft Type	Count	Count	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	
Assist tugboat	13	27	1980	2014	2007	600	2,572	2,004	326	2,173	1,340	
Crew boat	16	41	2003	2016	2009	290	1,450	618	119	1,902	790	
Excursion	8	14	1980	2012	2006	165	500	378	450	2,500	1,293	
Ferry	12	26	2008	2015	2010	180	2,680	1,851	588	1,890	1,065	
Government	4	8	2009	2016	2012	803	2,012	1,532	929	1,908	1,445	
Ocean tugboat	6	12	2004	2012	2008	1,800	3,385	2,168	250	2,151	1,358	
Harbor tugboat	15	29	2004	2018	2009	300	1,500	904	61	3,000	661	
Work boat	5	9	2008	2015	2011	210	671	477	34	747	365	
Total	79	166										

Table 3.5: 2019 Auxiliary Engine Characteristics by Harbor Craft Type

Auxiliary Engines												
Harbor	Vessel	Engine		Model year			Horsepower		Annual Operating Hours			
Craft Type	Count	Count	Minimum	Maximum	Average	Minimum	Maximum	Average	Minimum	Maximum	Average	
Assist tugboat	13	28	1980	2017	2010	107	296	184	133	2,664	1,478	
Crew boat	16	20	2002	2018	2009	13	107	59	417	2,084	886	
Excursion	8	8	1980	2012	2005	43	90	60	800	2,925	1,746	
Ferry	12	18	2008	2017	2011	18	120	67	801	2,031	1,089	
Government	4	12	2009	2017	2013	15	2012	864	101	3,240	933	
Ocean tugboat	6	13	2004	2016	2009	60	339	139	250	2,256	1,169	
Harbor tugboat	15	24	2004	2018	2010	15	300	83	10	3,553	656	
Work boat	5	8	1979	2015	2004	40	101	70	285	588	421	
Total	79	131										

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SECTION 4 CARGO HANDLING EQUIPMENT

Source Description

Cargo handling equipment (CHE) typically operate at Port terminals or railyards to move cargo such as containers, general cargo, and bulk cargo to and from marine vessels, railcars, and on-road trucks. The majority of CHE are composed of off-road equipment not designed to operate on public roadways. This inventory includes CHE powered by engines fueled by diesel, gasoline, propane or electricity.

Emissions Estimation Methodology

The emissions calculation methodology used to estimate CHE emissions is consistent with CARB's latest methodology for estimating emissions from CHE.⁶ For the newer diesel on-road engines within a certain horsepower range, the NO_x emission rates were updated based on discussions with CARB. The methodology to estimate 2019 emissions from CHE is described in Section 4 of the San Pedro Bay Ports Emissions Inventory Methodology Report Version 1 (2019)⁷.

Geographical Domain

Emissions are estimated for CHE operating within Port terminals and facilities.

Data and Information Acquisition

The maintenance and/or CHE operating staff of each terminal were contacted to obtain equipment count and activity information on the CHE specific to their terminal or facility operations for the 2019 calendar year.

⁶ CARB, Appendix B: Emission Estimation Methodology for Cargo Handling Equipment Operating at Ports and Intermodal Rail Yards in California at nnw.arb.ca.gov/regact/2011/cargo11/cargoappb.pdf, viewed 22 July 2017

⁷ San Pedro Bay Ports Emissions Inventory Methodology Report, Version 1 – 2019 (April 2019), www.polb.com/environment/air/#emissions-inventory



Emission Estimates

A summary of CHE emissions by terminal type is presented in Table 4.1.

Table 4.1: 2019 CHE Emissions by Terminal Type, tons and metric tons

Terminal Type	PM_{10}	$PM_{2.5}$	DPM	NO_x	SO_x	СО	нс	CO ₂ e
z czaszania z y p c	tons	tons	tons	tons	tons	tons	tons	MT
Auto	0.0	0.0	0.0	0.0	0.0	0.3	0.0	16
Break-Bulk	0.2	0.1	0.2	7.1	0.0	9.7	0.8	2,575
Container	3.8	3.4	2.6	259.0	1.2	633.9	26.2	104,193
Cruise	0.1	0.1	0.0	1.4	0.0	34.2	0.4	560
Dry Bulk	0.1	0.1	0.1	4.8	0.0	7.7	1.4	516
Liquid	0.0	0.0	0.0	0.5	0.0	1.1	0.1	44
Other	0.0	0.0	0.0	0.7	0.0	10.2	0.2	1,149
Total	4.2	3.7	2.9	273.5	1.3	697.1	29.2	109,052

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Table 4.2 presents the CHE emissions by equipment and engine type. Emissions from boom lifts are included in the miscellaneous propane category. Emissions from rail car movers are included under the miscellaneous diesel category.

Table 4.2: 2019 CHE Emissions by Equipment Type, tons and metric tons

Port Equipment	Engine	PM_{10}	PM _{2.5}	DPM	NO_x	SO_x	CO	HC	CO_2e
	Type	tons	tons	tons	tons	tons	tons	tons	MT
Bulldozer	Diesel	0.0	0.0	0.0	0.9	0.0	0.2	0.1	95
Cone vehicle	Diesel	0.0	0.0	0.0	0.8	0.0	1.3	0.1	121
Crane	Diesel	0.0	0.0	0.0	0.0	0.0	0.1	0.0	14
Excavator	Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Forklift	Diesel	0.1	0.1	0.1	6.5	0.0	10.6	0.7	1,786
Forklift	Gasoline	0.0	0.0	0.0	0.4	0.0	5.7	0.1	181
Forklift	Propane	0.1	0.1	0.0	5.4	0.0	36.7	1.7	832
Loader	Diesel	0.1	0.1	0.1	1.8	0.0	3.9	0.5	1,654
Man lift	Diesel	0.0	0.0	0.0	0.3	0.0	0.6	0.0	85
Man lift	Gasoline	0.0	0.0	0.0	0.0	0.0	0.2	0.0	52
Material handler	Diesel	0.0	0.0	0.0	1.7	0.0	0.4	0.1	201
Miscellaneous	Diesel	0.0	0.0	0.0	0.1	0.0	0.1	0.0	12
Rail pusher	Diesel	0.0	0.0	0.0	0.3	0.0	0.4	0.0	102
Hybrid RTG	Diesel	0.0	0.0	0.0	0.3	0.0	1.2	0.1	622
RTG crane	Diesel	0.5	0.5	0.5	70.2	0.1	15.9	4.0	7,268
Side handler	Diesel	0.0	0.0	0.0	2.7	0.0	0.6	0.1	272
Skid steer loader	Diesel	0.0	0.0	0.0	0.2	0.0	0.2	0.0	28
Sweeper	Diesel	0.0	0.0	0.0	0.9	0.0	0.7	0.1	315
Sweeper	Propane	0.0	0.0	0.0	0.1	0.0	0.2	0.0	14
Top handler	Diesel	1.0	0.9	1.0	122.8	0.4	81.0	13.2	37,982
Tractor	Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
Tractor	Propane	0.0	0.0	0.0	0.5	0.0	17.2	0.3	181
Truck	Diesel	0.1	0.1	0.1	2.8	0.0	1.5	0.3	721
Yard tractor	Diesel	0.8	0.7	0.8	48.0	0.6	119.3	7.2	43,507
Yard tractor	Gasoline	1.2	1.0	0.0	6.7	0.1	399.2	0.6	13,046
Yard tractor	Propane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6
Total		4.2	3.7	2.9	273.5	1.3	697.1	29.2	109,052

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Operational Profiles

Table 4.3 is a summary of all the CHE engines by fuel type, including electric equipment. In 2019, there were a total of 1,479 CHE of which 15% are electric, 8% are powered by propane engines, 11% are powered by gasoline engines, and 67% are powered by diesel engines. Further details of the 219 pieces of electric equipment are listed in Table 4.4.

Table 4.3: 2019 CHE Engines by Fuel Type

Equipment	Electric	Propane	Gasoline	Diesel	Total
Forklift	8	102	24	98	232
RTG crane	0	0	0	54	54
Side handler	0	0	0	7	7
Top handler	0	0	0	188	188
Yard tractor	1	2	134	570	707
Sweeper	1	7	0	12	20
Other	208	5	2	55	270
Total	218	116	160	984	1,478
Percent of Total	15%	8%	11%	67%	

Table 4.4: 2019 Electric Equipment Count

	2019
Equipment	Electric
	Count
Automated guided vehicle	72
Automatic stacking crane	47
Crane	6
Electric pallet jack	2
Forklift	8
Man Lift	2
Material handler	1
Ship to shore crane	72
Sweeper	1
Truck	6
Yard tractor	1
Total	218

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Table 4.5 summarizes the characteristics of fossil fueled (i.e. diesel, gasoline, and propane) CHE data collected for the 2019 calendar year. The average values shown in the following tables are population-weighted and are used as default. For equipment without specific operational information available, default values associated with the specific equipment and engine type are used. Defaults were used for 1% of model year values, 6% of horsepower values, and 1% of operating hour values.

Table 4.5: 2019 Engine Characteristics for Fossil Fueled CHE Operating at the Port

Equipment	Engine	Count	P	ower (hp)	N	Iodel Y	Year .	Annual	Operati	ing Hours
	Type		Min	Max	Average	Min	Max	Average	Min	Max	Average
Bulldozer	Diesel	1	200	200	200	2004	2004	2004	1,500	1,500	1,500
Cone vehicle	Diesel	5	35	35	35	2016	2016	2016	1,197	3,469	2,363
Crane	Diesel	2	173	334	254	1985	2016	2000	20	298	159
Excavator	Diesel	2	322	371	347	2002	2005	2003	na	na	na
Forklift	Diesel	98	50	220	134	1990	2018	2010	1	5,146	754
Hybrid RTG crane	Diesel	15	250	250	250	2016	2016	2016	1111	1,700	1,449
Loader	Diesel	11	50	420	335	1985	2017	2011	250	1,912	1,386
Man Lift	Diesel	12	62	100	77	2000	2017	2010	2	1,128	304
Material handler	Diesel	2	371	717	544	2005	2008	2006	1,603	1,603	1,603
Miscellaneous	Diesel	2	13	13	13	2010	2010	2010	831	2,119	1,475
Rail pusher	Diesel	3	150	260	202	2013	2013	2013	328	879	597
RTG crane	Diesel	39	515	1,043	733	1998	2013	2005	4	4,033	2,408
Side handler	Diesel	7	205	205	205	2000	2017	2005	5	1,715	559
Skid steer loader	Diesel	2	67	67	67	2011	2015	2013	664	664	664
Sweeper	Diesel	12	75	300	188	2002	2019	2012	38	1,338	395
Top handler	Diesel	188	174	388	337	1979	2019	2011	1	3,574	1,868
Tractor	Diesel	1	59	59	59	2009	2009	2009	80	80	80
Truck	Diesel	12	177	525	317	1998	2018	2009	48	1,706	834
Yard tractor	Diesel	570	135	250	220	2007	2019	2013	4	4,338	1,738
Forklift	Gasoline	24	59	72	64	2002	2016	2012	6	1,202	507
Man Lift	Gasoline	2	82	82	82	2000	2004	2002	42	100	71
Yard tractor	Gasoline	134	335	335	335	2011	2019	2014	21	2,220	1,022
Forklift	Propane	102	45	141	84	1985	2018	2005	4	2,181	570
Sweeper	Propane	7	47	135	88	1982	2016	2005	20	200	66
Tractor	Propane	5	101	101	101	1996	1997	1996	47	1,248	969
Yard tractor	Propane	2	173	173	173	2009	2009	2009	25	98	62
Total		1,260									

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Table 4.6 is a summary of the emission reduction technologies⁸ utilized in cargo handling equipment as retrofits to existing equipment, including diesel particulate filters (DPF) and BlueCAT retrofit for large-spark ignition (LSI) engines. Hybrid equipment and on-road engine counts have been included to the table also.

Table 4.6: 2019 CHE Emission Reduction Technologies by Equipment Type

Equipment	Hybrid	On-Road	ULSD	DPF	BlueCAT
Equipment	· ·				
	Equipment	Engines	Fuel	Retrofit	Retrofit
Forklift	0	0	98	36	11
RTG crane	15	0	54	21	0
Side handler	0	0	7	6	0
Top handler	0	0	188	50	0
Yard tractor	0	344	570	0	0
Sweeper	0	0	12	0	0
Other	0	5	55	5	5
Total	15	349	984	118	16

Table 4.7 summarizes the distribution of diesel-powered CHE equipped with off-road diesel engines by USEPA non-road engine emission standards tier level. The table also includes on-road diesel engines. On-road engines are generally lower in emissions than the off-road engines of the same model year.

Table 4.7: 2019 Count of Diesel-Powered CHE by Type and Engine Emission Standard

Equipment	Unknown	Tier 0	Tier 1	Tier 2	Tier 3	Tier 4i	Tier 4f	On-road	Total
Type	Tier								Diesel
Yard tractor	0	0	0	0	0	1	225	344	570
Forklift	13	4	6	13	17	12	33	0	98
Top handler	22	1	7	27	12	61	58	0	188
Other	12	2	1	4	6	7	18	5	55
RTG crane	1	0	25	0	0	13	15	0	54
Side handler	0	0	2	2	2	0	1	0	7
Sweeper	3	0	1	2	0	0	6	0	12
Total	51	7	42	48	37	94	356	349	984
Percent of Total	5%	1%	4%	5%	4%	10%	36%	35%	

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⁸ www.arb.ca.gov/diesel/verdev/vt/cvt.htm



Table 4.8 summarizes the energy consumption (kWh) for all of the equipment by engine tier. For diesel equipment, the equipment with higher tier levels (newer equipment) and those with on-road engines are generally used more than older equipment, which contributes to reduced emissions due to cleaner engine standards in newer equipment. In 2019, 77% of the energy consumed was by equipment with Tier 4i, Tier 4f, and on-road engines.

Table 4.8: Equipment Energy Consumption by Engine Type and Diesel Engine Standard, kWh and %

Engine	Engine		
Type	Tier	kWh	% of Total
Diesel	Tier 0	45,117	0.03%
Diesel	Tier 1	7,600,725	6%
Diesel	Tier 2	7,671,966	6%
Diesel	Tier 3	2,565,114	2%
Diesel	Tier 4i	21,983,491	16%
Diesel	Tier 4f	45,695,380	33%
Diesel	Onroad	37,886,508	27%
Gasoline		13,335,965	10%
Propane		1,141,597	1%
Total		137,925,864	100%

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SECTION 5 RAILROAD LOCOMOTIVES

Source Description

Railroad locomotives are used to move trains transporting intermodal (containerized) freight and lesser amounts of dry bulk, liquid bulk, and carload (boxcar) freight to, from, and within the Port. Railroad locomotive activities at the Port consist of two different types of operations: the initiation or termination of long-distance cargo movements, known as line haul, and the short-distance movement of rail cars, such as the assembling and disassembling of trains in and around the Port, known as switching.

Rail operators Burlington Northern Santa Fe (BNSF) and Union Pacific (UP) provide line haul service to and from the Port and operate switching services at their off-port locations. Pacific Harbor Line (PHL) performs most of the switching operations within the Port.

Emissions Estimation Methodology

The methodology used to estimate 2019 emissions from rail locomotives closely follows the methodology as described in Section 5 of the San Pedro Bay Ports Emissions Inventory Methodology Report Version 1 (2019)⁹.

Geographical Domain

Emissions from railroad locomotives are estimated for movements of cargo by rail locomotives within Port boundaries, directly to or from port-owned properties such as terminals and on-port rail yards, or to and from the SoCAB boundary. The inventory does not include rail movements of cargo that occur solely outside the Port, such as off-port rail yard switching, and movements that neither begin nor end at a Port property, such as east-bound line hauls that initiate in central Los Angeles intermodal yards. Figure 1.1 in Section 1 of this report illustrates the geographical domain.

⁹ San Pedro Bay Ports Emissions Inventory Methodology Report, Version 1 – 2019 (April 2019), www.polb.com/environment/air/#emissions-inventory



Data and Information Acquisition

Information from the following general sources was used to estimate emissions associated with Portrelated activities of locomotives:

- Previous emissions studies
- > Port cargo statistics
- > Input from railroad operators
- Published information sources
- ➤ California Air Resources Board Memorandum of Understanding (CARB MOU) line-haul fleet compliance data

The Port continues to use the most recent, locally specific data available, including MOU compliance data reflective of actual recent line haul fleet mix characteristics in the SoCAB. In addition, PHL has provided fuel consumption information for each locomotive in service in each calendar year, along with the engine tier levels of the locomotives. Table 5.1 lists the number of locomotives of each tier level that were operated in 2019, and the percentage of fuel used by locomotives in each tier. Discussion of the tiers and a list of tier-specific emission factors are included in Section 5 of the San Pedro Bay Ports Emissions Inventory Methodology Report Version 1 (2019)¹⁰.

Table 5.1: PHL Switching Fleet Mix, 2019

Locomotive		
Tier Level	Count	% of Fuel
/Power Type		Consumed
Genset	6	7%
Tier 3	0	0%
Tier 3+	18	89%
Tier 4	1	4º/o
Totals	25	100%

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¹⁰ San Pedro Bay Ports Emissions Inventory Methodology Report, Version 1 – 2019 (April 2019), www.polb.com/environment/air/emissions.asp



Emission Estimates

A summary of estimated emissions from locomotive operations related to the Port is presented in Table 5.2.

Table 5.2: 2019 Locomotive Emissions, tons and metric tons

Activity	PM_{10}	$PM_{2.5}$	DPM	NO_x	SO_x	CO	HC	CO_2e
Component	tons	tons	tons	tons	tons	tons	tons	MT
On-Port Emissions								
Switching	0.4	0.4	0.4	26.0	0.0	8.9	1.6	2984
Line Haul	5.4	5.0	5.4	144.1	0.1	31.9	8.0	11,171
On-Port Subtotal	5.8	5.4	5.8	170.1	0.2	40.8	9.6	14,154
Off-Port (Regional) Emis	ssions							
Switching	0.1	0.1	0.1	4.8	0.0	2.1	0.1	739
Line Haul	15.6	14.4	15.6	417.3	0.4	92.4	23.1	32,345
Off-Port Subtotal	15.7	14.4	15.7	422.0	0.4	94.5	23.2	33,084
Total	21.5	19.8	21.5	592.1	0.5	135.3	32.7	47,239

Operational Profiles

The goods movement rail system in terms of the activities that are carried out by locomotive operators is the same as described in detail in Section 5 of the San Pedro Bay Ports Emissions Inventory Methodology Report Version 1 (2019).

Table 5.3 presents the CARB MOU compliance information submitted annually by BNSF and UP on pre-Tier 0 through Tier 4 locomotive fleet composition, showing a weighted average NO_x emission factor of 5.78 g/bhp-hr.¹¹ The 2018 reports were used instead of 2019 because of the timing of the inventory data collection phase and of the posting of the compliance reports by CARB. The ultra-low emission locomotives (ULEL) are also included in the table but are not used in developing the line haul emission factors because the ULELs are believed to all be in switching service.

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¹¹ Notes from railroads' MOU compliance submissions:

^{1.} For more information on the U.S. EPA locomotive emission standards please visit. www.epa.gov/oms/locomotives.htm.

^{2.} Number of locomotives is the sum of all individual locomotives that visited or operated within the SCAB at any time during 2018.



Table 5.3: CARB MOU Compliance Data, Megawatt-hours (MW-hr) and g NO_x /bhp-hr

Engine	Number of	Megawatt-	%MW-hr	Wt'd Avg	Tier Contribution
Tier	Locomotives	hours (MWh)	by Tier Level	NOx (g/bhp-hr)	to Fleet Average (g/bhp-hr)
BNSF		(112 11 11)	1101 20 (01	(g/ sirp iii)	(g/ ziip iii)
Pre-Tier 0	297	1,797	0.7%	13.0	0.08
Tier 0	268	11,118	4.0%	7.8	0.31
Tier 1	1,455	99,606	36%	6.1	2.20
Tier 2	1,507	97,720	35%	4.9	1.74
Tier 3	1,187	53,473	19%	4.5	0.87
Tier 4	251	11,962	4.3%	1.1	0.05
ULEL	0	0	0%	-	-
Total BNSF	4,965	275,676	100%		5.3
UP					
Tier not reported	37	343	0.2%	6.3	0.01
Pre-Tier 0	57	639	0.3%	12.7	0.04
Tier 0	1,814	48,707	21.3%	8.5	1.81
Tier 1	2,433	63,855	28%	7.3	2.04
Tier 2	1,582	57,948	25%	5.3	1.34
Tier 3	953	47,062	21%	5.2	1.07
Tier 4	245	8,603	3.8%	1.1	0.04
ULEL	32	1,476	1%	2.8	0.02
Total UP	7,153	228,633	100%		6.37
		ULEL	Credit Used		0.80
		UP Fle	eet Average		5.57
Both RRs, exclu	ding ULELs an	nd ULEL cre	dits		
Pre-Tier 0	354	2,436	0%	12.9	0.06
Tier 0	2,082	59,825	12%	8.4	1.00
Tier 1	3,925	163,805	33%	6.6	2.14
Tier 2	3,089	155,668	31%	5.0	1.56
Tier 3	2,140	100,535	20%	4.8	0.97
Tier 4	496	20,565	4%	1.1	0.05
Total both	12,086	502,833	100%		5.78

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Emission factors for particulate matter (PM₁₀), HC, and CO were calculated using the tier-specific emission rates for those pollutants published by USEPA¹² to develop weighted average emission factors using the MWh figures provided in the railroads' submissions. These results are presented in Table 5.4.

Table 5.4: Fleet MW-hr and PM, HC, CO Emission Factors, g/hp-hr

Engine		% of	ЕРА Т	lier-speci	fic	Fleet Composite		
Tier	MWh	MWh	PM_{10}	HC	CO	PM_{10}	HC	CO
			g,	/bhp-hr		g/	bhp-hr	
Pre-Tier 0	2,436	0%	0.32	0.48	1.28	0.00	0.00	0.01
Tier 0	59,825	12%	0.32	0.48	1.28	0.04	0.06	0.15
Tier 1	163,805	33%	0.32	0.47	1.28	0.10	0.15	0.42
Tier 2	155,668	31%	0.18	0.26	1.28	0.06	0.08	0.40
Tier 3	100,535	20%	0.08	0.13	1.28	0.02	0.03	0.26
Tier 4	20,565	4.09%	0.015	0.04	1.28	0.00	0.00	0.05
Totals	502,833	100%				0.22	0.32	1.28

Emission factors for PM_{2.5} and DPM were calculated as fractions of PM₁₀, with PM_{2.5} calculated as 94% of PM₁₀ consistent with CARB methodology and DPM equal to PM₁₀ because all PM emissions from diesel engines are defined as DPM. Rounding of emission factors before and after the conversion resulted in the emission factor values shown. Table 5.5 summarizes the emission factors for line haul locomotives, presented in units of g/bhp-hr.

Table 5.5: Emission Factors for Line Haul Locomotives, g/bhp-hr

	PM_{10}	PM _{2.5}	DPM	NO _x	SO _x	СО	НС	CO ₂	N ₂ O	CH ₄
EF, g/bhp-hr	0.22	0.20	0.22	5.78	0.005	1.28	0.32	489	0.013	0.04

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¹² EPA Office of Transportation and Air Quality, "Emission Factors for Locomotives" EPA-420-F-09-025 April 2009.



On-Port Line Haul Activity

As described in the San Pedro Bay Ports Emissions Inventory Methodology Report¹³, estimates of the number of trains per year, locomotives per train, and on-port hours per train are multiplied together to calculate total locomotive hours per year. This activity information for 2019 is summarized in Table 5.6.

Table 5.6: 2019 Estimated On-Port Line Haul Locomotive Activity

Activity Measure	Inbound	Outbound	Total
Trains per Year	1,914	1,927	3,841
Locomotives per Train	3	3	N/A
Hours on Port per Trip	1	2.5	N/A
Locomotive Hours per Year	5,742	14,453	20,195

Out-of-Port Line Haul Activity

Table 5.7 lists the estimated totals of travel distance, out-of-port trains per year, out-of-port million gross tons (MMGT), out-of-port MMGT-miles, gallons of fuel used, and horsepower-hours. Fuel consumption is calculated by multiplying gross ton-miles by the average fuel consumption factor of 0.996 gallons per thousand gross ton-miles. Overall horsepower hours are calculated by multiplying the fuel used by the fuel consumption conversion factor of 20.8 hp-hr/gal.

Table 5.7: 2019 Gross Ton-Mile, Fuel Use, and Horsepower-hour Estimate

				MMGT-
	Distance	Trains	MMGT	miles
	miles	per year	per year	per year
Alameda Corridor	21	4,062	30	630
Central LA to Air Basin Boundary	84	4,062	30	2,520
Million gross ton-miles				3,150
Estimated gallons of fuel (million			3.14	
Estimated million horsepower-h	ours			65.3

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¹³ San Pedro Bay Ports Emissions Inventory Methodology Report, Version 1 – 2019 (April 2019), www.polb.com/environment/air/#emissions-inventory



SECTION 6 HEAVY-DUTY VEHICLES

Source Description

Heavy-duty vehicles (HDVs), or trucks, are used to move cargo, particularly containerized cargo, to and from the marine terminals. Trucks also transfer containers between terminals and off-port railcar loading facilities. The local activity is often referred to as drayage. In the course of their daily operations, trucks are driven onto and through the terminals, where they deliver and/or pick up cargo. They are also driven on the public roads within the Port boundaries and on the public roads outside the Port.

The majority of trucks that service the Port's terminals are diesel-fueled vehicles. Alternative fuel trucks, primarily those fueled by liquefied natural gas (LNG), made approximately 4% of the terminal calls in 2019, according to an evaluation of the Port's Clean Trucks Program (CTP) activity records and the Port Drayage Truck Registry (PDTR). Vehicles using fuel other than diesel fuel do not emit diesel particulate matter, so the diesel particulate emission estimates presented in this inventory have been adjusted to take the alternative-fueled trucks into account.

Emissions Estimation Methodology

The methodology used to estimate 2019 emissions from HDVs is described in Section 6 of the San Pedro Bay Ports Emissions Inventory Methodology Report¹⁴. HDV emission estimates are based on estimates of vehicle miles traveled (VMT), average speeds, CARB's on-road vehicle Emission Factors model (EMFAC) and HDV model year information specific to the San Pedro Bay ports. The most recent version of the model, EMFAC2017, reflects CARB's current understanding of motor vehicle travel activities and their associated emission levels.

Geographical Domain

The two major geographical components of truck activities evaluated for this inventory are:

- ➤ On-terminal operations, which include waiting for terminal entry, transiting the terminal to drop off and/or pick up cargo, and departing the terminals.
- ➤ On-road operations, consisting of travel on public roads within the SoCAB. This also includes travel on public roads within the Port boundaries and those of the adjacent Port of Los Angeles (POLA). The activity of on-road trucks included within the geographical domain is from the Port to the cargo's first point of rest within SoCAB or up to the basin boundary, whichever comes first.

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¹⁴ San Pedro Bay Ports Emissions Inventory Methodology Report, Version 1 – 2019 (April 2019), www.polb.com/environment/air/#emissions-inventory



Data and Information Acquisition

Information regarding the activity of trucks while they are on terminal, such as average times and distances traveled through the terminal, is collected during in-person and/or telephone interviews with terminal personnel. For on-road operations, the volumes (number of trucks), distances, and average speeds on roadway segments between defined intersections are estimated using trip generation and travel demand models that have been developed for these purposes. The trip generation model is used to develop truck trip numbers for container terminals, while the terminal interviews are used to obtain trip counts associated with non-container terminals.

The model year distribution of HDVs operating at the Port is developed using radio frequency identification (RFID) call information gathered at the Port and POLA container terminals and truck/engine model year data from the Port Drayage Truck Registry (PTDR). The RFID call information is only collected at container terminals, so it is assumed for the inventory that trucks calling at other Port terminals have the same general distribution of model years.

Emission Estimates

Tables 6.1 through 6.3 summarize the vehicle miles traveled and emissions associated with overall HDV activity, emissions associated with container terminal activity, and emissions associated with other Port terminals, respectively.

Table 6.1: 2019 HDV Emissions, tons and metric tons

	Vehicle								
Activity Location	Miles	PM ₁₀	PM _{2.5}	DPM	NO_x	SO_x	CO	HC	CO_2e
	Traveled	tons	tons	tons	tons	tons	tons	tons	MT
On-Terminal	5,237,843	0.3	0.3	0.3	160	0.3	95.9	8.3	35,239
On-Road	169,505,239	6.9	6.6	6.6	967	2.7	75.6	19.4	271,865
Total	174,743,082	7.3	6.9	7.0	1,127	3.1	171.6	27.7	307,104

Table 6.2: 2019 HDV Emissions Associated with Container Terminals, tons and metric tons

	Vehicle								
Activity Location	Miles	PM ₁₀	PM _{2.5}	DPM	NO_x	SO_x	CO	HC	CO_2e
	Traveled	tons	tons	tons	tons	tons	tons	tons	MT
On-Terminal	5,183,851	0.3	0.3	0.3	158	0.3	94.7	8.2	34,812
On-Road	161,126,653	6.6	6.3	6.3	919	2.6	71.9	18.4	258,426
Total	166,310,505	6.9	6.6	6.6	1,077	2.9	166.6	26.7	293,238

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Table 6.3: 2019 HDV Emissions Associated with Non-Container Port Terminals, tons and metric tons

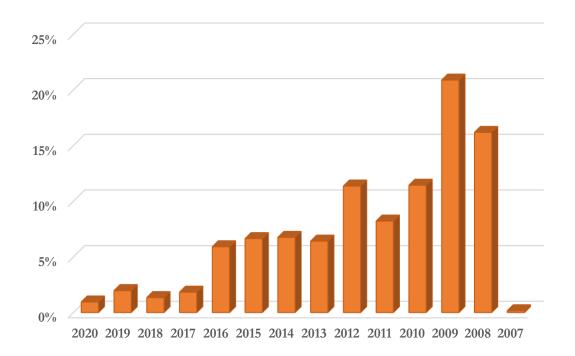
	Vehicle								
Activity Location	Miles	PM_{10}	$PM_{2.5}$	DPM	NO_x	SO_x	CO	HC	CO_2e
	Traveled	tons	tons	tons	tons	tons	tons	tons	MT
On-Terminal	53,992	0	0	0	2	0	1	0	428
On-Road	8,378,586	0.3	0.3	0.3	48	0.1	3.7	1.0	13,438
Total	8,432,577	0.3	0.3	0.3	50	0.1	4.7	1.0	13,767

Operational Profiles

To estimate the 2019 emissions from HDVs, operational profiles were developed for on-terminal truck activity using data and information collected from terminal operators. The on-road truck activity profiles were developed using trip generation and travel demand models to estimate the number of on-road VMT.

The model year distribution of HDVs was determined using RFID information collected at Port terminals to track the number of truck calls, and truck model year information from the PDTR. The distribution of the model years of the trucks that called at the Port and at the Port of Los Angeles terminals during 2019 is presented in Figure 6.1. The call weighted average age of the trucks in 2019 was approximately 7.6 years.

Figure 6.1: 2019 Model Year Distribution of HDV Fleet



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Table 6.4 shows the range and average of reported operating characteristics of on-terminal truck activities at Port container terminals, while Table 6.5 shows the same summary data for non-container terminals and facilities.

Table 6.4: 2019 Summary of Reported Container Terminal Operating Characteristics

	Speed	Distance	Cata In	Unload /Load	Gate Out
	(mph)	Distance (miles)	(hours)	Unload/Load (hours)	(hours)
Maximum	15	3.5	0.28	0.81	0.18
Minimum	5	0.5	0.03	0.40	0.00
Average	10	1.4	0.15	0.56	0.07

Table 6.5: 2019 Summary of Reported Non-Container Facility Operating Characteristics

	Speed (mph)	Distance (miles)	Gate In (hours)	Unload/Load (hours)	Gate Out (hours)
Maximum	10	0.5	0.08	0.50	0.08
Minimum	0	0.0	0.00	0.00	0.00
Average	5	0.2	0.01	0.09	0.01

In 2019, a total 3,464,786 truck calls were associated with container terminals and 287,714 truck calls were associated with non-container facilities. The total number of truck calls associated with container terminals is estimated by the trip generation model on which truck travel VMT estimates are based, while non-container terminal truck calls were obtained from the terminal operators. The non-container terminal number includes activity at the Port's temporary empty container depot and chassis support facility that operated in 2019, totaling approximately 109,000 calls. The chassis yard is used for pickup, delivery and maintenance of chassis.

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Table 6.6 provides the on-terminal operating parameters, listing total estimated VMT and hours of idling on-terminal and waiting at entry gates. The idling times are likely to be over-estimated because the idling estimates are based on the entire time that trucks are on terminal (except for driving time), which does not account for times that trucks are turned off while on terminal. To date, there are no other known available data sources identified to provide a reliable estimate of the average percentage of time the trucks' engines are turned off while on terminal.

Table 6.6: 2019 Estimated On-Terminal VMT and Idling Hours by Terminal

	Total	Total
Terminal	Miles	Hours Idling
Type	Traveled	(all trips)
Container	2,680,276	559,029
Container	961,358	400,566
Container	710,295	956,531
Container	334,500	107,040
Container	282,791	328,038
Container	214,632	467,897
Auto	5,656	9,721
Break Bulk	3,566	2,995
Break Bulk	3,000	960
Break Bulk	1,500	0
Break Bulk	400	80
Break Bulk	20	0
Dry Bulk	13,025	686
Dry Bulk	40	440
Liquid Bulk	5,400	4,320
Liquid Bulk	3,125	375
Liquid Bulk	1,350	0
Other	11,600	9,860
Other	3,060	8,670
Other	2,250	0
Total	5,237,843	2,857,207

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Table 6.7 summarizes the speed-specific composite emission factors developed from the EMFAC2017 model and the port-specific model year distribution. These composite emission factors are developed using model year specific emission factors for the T7 POLA vehicle category of EMFAC2017.

Table 6.7: 2019 Speed-Specific Composite Exhaust Emission Factor, g/hr and g/mi

Speed	\mathbf{PM}_{10}	$PM_{2.5}$	DPM	NO _x	SO_x	СО	нс	CO_2	N_2O	CH ₄	Units
(mph)	1 1/1/10	1112.5		110 _x	oo _x	33	110	332	11/20	011 4	Cinto
0 (Idle)	0.0039	0.0037	0.0037	26.1794	0.0540	23.7915	1.0407	5,754	0.8932	0.0612	g/hr
5	0.0611	0.0584	0.0586	15.7870	0.0355	4.6439	1.0781	3,756	0.5903	0.0634	g/mi
10	0.0548	0.0525	0.0526	13.1278	0.0304	3.4880	0.8465	3,221	0.5063	0.0498	g/mi
15	0.0467	0.0446	0.0448	10.1944	0.0248	2.3113	0.5790	2,630	0.4134	0.0341	g/mi
20	0.0414	0.0396	0.0397	8.4594	0.0216	1.6426	0.4139	2,282	0.3587	0.0244	g/mi
25	0.0379	0.0363	0.0364	7.3206	0.0192	1.2157	0.3053	2,034	0.3196	0.0180	g/mi
30	0.0358	0.0343	0.0344	6.4551	0.0174	0.9064	0.2274	1,840	0.2892	0.0134	g/mi
35	0.0349	0.0334	0.0335	5.7836	0.0160	0.6744	0.1699	1,690	0.2657	0.0100	g/mi
40	0.0349	0.0334	0.0335	5.2869	0.0149	0.5023	0.1277	1,579	0.2482	0.0075	g/mi
45	0.0359	0.0344	0.0345	4.9516	0.0142	0.3771	0.0972	1,503	0.2363	0.0057	g/mi
50	0.0378	0.0362	0.0363	4.7714	0.0138	0.2893	0.0756	1,461	0.2296	0.0044	g/mi
55	0.0406	0.0389	0.0390	4.7457	0.0137	0.2318	0.0610	1,450	0.2279	0.0036	g/mi
60	0.0447	0.0427	0.0429	4.9166	0.0140	0.2177	0.0572	1,482	0.2330	0.0034	g/mi
65	0.0499	0.0478	0.0479	5.2914	0.0147	0.2354	0.0609	1,555	0.2444	0.0036	g/mi
70	0.0499	0.0478	0.0479	5.3069	0.0147	0.2445	0.0617	1,555	0.2444	0.0036	g/mi

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SECTION 7 SUMMARY OF 2019 EMISSION RESULTS

The Port of Long Beach 2019 Air Emissions Inventory results are presented in this section. Table 7.1 summarizes the 2019 air emissions associated with the goods movement-related sources at the Port, by category.

Table 7.1: 2019 Emissions by Source Category, tons and metric tons

Category	PM_{10}	$PM_{2.5}$	DPM	NO_x	SO_x	CO	HC	CO_2e
	tons	tons	tons	tons	tons	tons	tons	MT
Ocean going vessels	83	78	62	3,983	209	336	151	291,774
Harbor craft	22	20	22	637	1	458	69	51,698
Cargo handling equipment	4	4	3	274	1	697	29	109,052
Locomotives	21	20	21	592	1	135	33	47,239
Heavy-duty vehicles	7	7	7	1,127	3	172	28	307,104
Total	138	129	115	6,613	214	1,799	309	806,866

Table 7.2: 2019 Emissions Percent Contributions by Source Category

Source Category	DPM		NO_x		SO_x		CO ₂ e	
	tons	%	tons	%	tons	%	MT	%
Ocean going vessels	62	54%	3,983	60%	209	97.5%	291,774	36%
Harbor craft	22	19%	637	10%	0.6	0.3%	51,698	6%
Cargo handling equipment	3	2%	274	4%	1.3	0.6%	109,052	14%
Rail locomotives	21	19%	592	9%	0.5	0.2%	47,239	6%
Heavy-duty vehicles	7	6%	1,127	17%	3	1.4%	307,104	38%
Total	115	100%	6,613	100%	214	100.0%	806,866	100%

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To place the maritime industry-related emissions into context, the following figures compare the Port's contributions to the total emissions in the South Coast Air Basin by major emission source category. Due to rounding, the percentages may not total 100%.

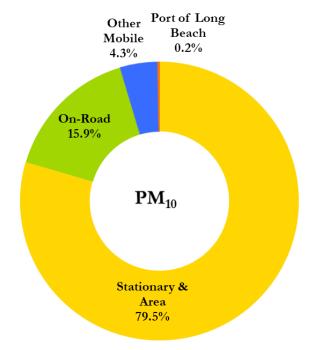
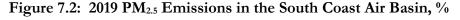
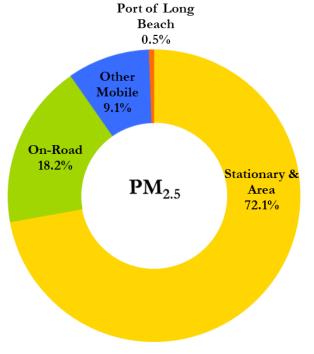


Figure 7.1: 2019 PM₁₀ Emissions in the South Coast Air Basin, %





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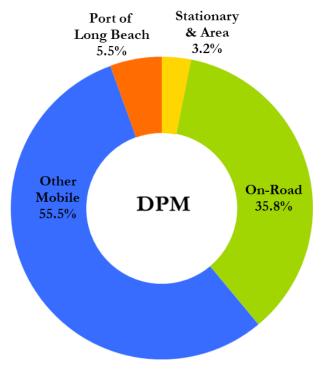
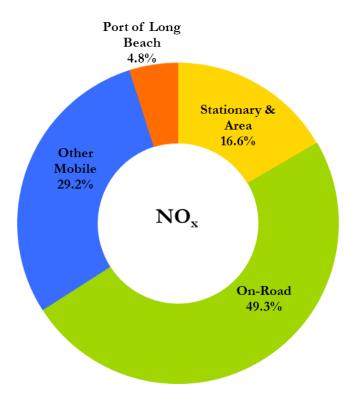


Figure 7.3: 2019 DPM Emissions in the South Coast Air Basin, %

Figure 7.4: 2019 NO_x Emissions in the South Coast Air Basin, %



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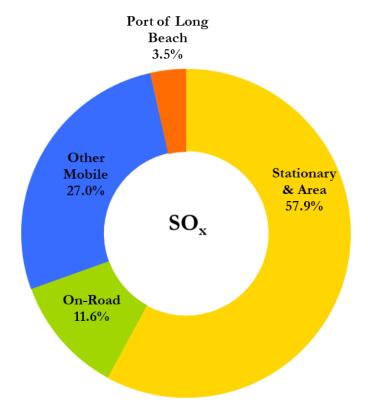


Figure 7.5: 2019 SO_x Emissions in the South Coast Air Basin, %

Tables 7.3 through 7.8 list the percent emissions contribution. The 2019 SoCAB emissions are based on the 2016 AQMP Appendix III¹⁵, except for the SoCAB on-road emission estimates which were updated to take into consideration EMFAC2017¹⁶. Thus, the 2019 SoCAB total emissions shown on the bottom row of the tables do not exactly match 2016 AQMP Appendix III values. It should be noted that SoCAB on-road heavy-duty diesel PM₁₀ and PM_{2.5} emissions do not include brake and tire wear emissions consistent with the Port's HDV emissions.

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¹⁵ SCAQMD, Final 2016 AQMP Appendix III, Base & Future Year Emissions Inventories, March 2017. Except on-road emissions based on EMFAC2014 are replaced with EMFAC2017 estimates.

¹⁶ ARB, www.arb.ca.gov/emfac/



Table 7.3: 2019 PM_{10} Emissions Contribution, tons and %

			Percent PM ₁₀	Emission	s of Total
Category	Subcategory	PM ₁₀	Category	Port	SoCAB
					AQMP
OGV	Auto carrier	3	4%	2%	0.01%
OGV	Bulk vessel	4	5%	3%	0.01%
OGV	Containership	28	34%	20%	0.05%
OGV	Cruise	10	12%	7%	0.02%
OGV	General cargo	1	1%	1%	0.00%
OGV	Ocean tugboat	0	0%	0%	0.00%
OGV	Miscellaneous	4	5%	3%	0.01%
OGV	RoRo	1	1%	0%	0.00%
OGV	Tanker	32	38%	23%	0.05%
OGV	Subtotal	83	100%	60%	0.14%
Harbor Craft	Assist tug	5	25%	4%	0.01%
Harbor Craft	Harbor tug	2	7%	1%	0.00%
Harbor Craft	Ferry	4	19%	3%	0.01%
Harbor Craft	Ocean tugboat	7	30%	5%	0.01%
Harbor Craft	Government	1	6%	1%	0.00%
Harbor Craft	Excursion	1	3%	0%	0.00%
Harbor Craft	Crewboat	2	8%	1%	0.00%
Harbor Craft	Work boat	0	0%	0%	0.00%
Harbor Craft	Subtotal	22	100%	16%	0.04%
CHE	RTG crane	1	13%	0%	0.00%
CHE	Forklift	0	5%	0%	0.00%
CHE	Top handler, side pick	1	25%	1%	0.00%
CHE	Other	0	8%	0%	0.00%
CHE	Yard tractor	2	48%	1%	0.00%
CHE	Subtotal	4	100%	3%	0.01%
Locomotives	Switching	0	2%	0%	0.00%
Locomotives	Line haul	21	99%	16%	0.04%
Locomotives	Subtotal	21	100%	16%	0.04%
HDV	On-Terminal	0.3	5%	0%	0.00%
HDV	On-road	6.9	95%	5%	0.01%
HDV	Subtotal	7	100%	5%	0.01%
Port	Total	138		100%	0.2%
SoCAB AQM	r 10tai	58,363			

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Table 7.4: 2019 $PM_{2.5}$ Emissions Contribution, tons and %

			Percent PM	_{2.5} Emission	s of Total
Category	Subcategory	$PM_{2.5}$	Category	Port	SoCAB
					AQMP
OGV	Auto carrier	3	4%	2%	0.01%
OGV	Bulk vessel	4	5%	3%	0.02%
OGV	Containership	26	34%	20%	0.11%
OGV	Cruise	9	12%	7%	0.04%
OGV	General cargo	1	1%	1%	0.00%
OGV	Ocean tugboat	0	0%	0%	0.00%
OGV	Miscellaneous	4	5%	3%	0.02%
OGV	RoRo	1	1%	0%	0.00%
OGV	Tanker	30	38%	23%	0.13%
OGV	Subtotal	78	100%	61%	0.33%
Harbor Craft	Assist tug	5	25%	4%	0.02%
Harbor Craft	Harbor tug	2	8%	1%	0.01%
Harbor Craft	Ferry	4	19%	3%	0.02%
Harbor Craft	Ocean tugboat	6	30%	5%	0.03%
Harbor Craft	Government	1	6%	1%	0.01%
Harbor Craft	Excursion	1	3%	0%	0.00%
Harbor Craft	Crewboat	2	8%	1%	0.01%
Harbor Craft	Work boat	0	0%	0%	0.00%
Harbor Craft	Subtotal	20	100%	15%	0.08%
CHE	RTG crane	1	14%	0%	0.00%
CHE	Forklift	0	6%	0%	0.00%
CHE	Top handler, side pick	1	25%	1%	0.00%
CHE	Other	0	8%	0%	0.00%
CHE	Yard tractor	2	47%	1%	0.01%
CHE	Subtotal	4	100%	3%	0.02%
Locomotives	Switching	0	2%	0%	0.00%
Locomotives	Line haul	19	98%	15%	0.08%
Locomotives	Subtotal	20	100%	15%	0.08%
HDV	On-Terminal	0.3	5%	0%	0.00%
HDV	On-road Subtotal	6.6 7	95% 100%	5% 50 /	0.03%
HDV Port	Total	129	100%	5% 100%	0.03%
SoCAB AQMP		23,683		100 / 0	0.570

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Table 7.5: 2019 DPM Emissions Contribution, tons and %

			Percent DPN	I Emission	s of Total
Category	Subcategory	DPM	Category	Port	SoCAB
					AQMP
OGV	Auto carrier	3	4%	2%	0.1%
OGV	Bulk vessel	4	6%	3%	0.2%
OGV	Containership	22	36%	20%	1.1%
OGV	Cruise	9	15%	8%	0.4%
OGV	General cargo	1	1%	1%	0.0%
OGV	Ocean tugboat	0	0%	0%	0.0%
OGV	Miscellaneous	4	7%	4%	0.2%
OGV	RoRo	0	0%	0%	0.0%
OGV	Tanker	19	30%	16%	0.9%
OGV	Subtotal	62	100%	54%	3.0%
Harbor Craft	Assist tug	5	25%	5%	0.3%
Harbor Craft	Harbor tug	2	8%	1%	0.1%
Harbor Craft	Ferry	4	19%	4%	0.2%
Harbor Craft	Ocean tugboat	7	30%	6%	0.3%
Harbor Craft	Government	1	6%	1%	0.1%
Harbor Craft	Excursion	1	3%	1%	0.0%
Harbor Craft	Crewboat	2	8%	2%	0.1%
Harbor Craft	Work boat	0	0%	0%	0.0%
Harbor Craft	Subtotal	22	100%	19%	1.0%
CHE	RTG crane	1	19%	0%	0.0%
CHE	Forklift	0	5%	0%	0.0%
CHE	Top handler, side pick	1	36%	1%	0.0%
CHE	Other	0	11%	0%	0.0%
CHE	Yard tractor	1	29%	1%	0.0%
CHE	Subtotal	3	100%	2%	0.1%
Locomotives	Switching	0	2%	0%	0.0%
Locomotives	Line haul	21	98%	18%	1.0%
Locomotives	Subtotal	21	100%	19%	1.0%
HDV	On-Terminal	0.3	5%	0%	0.0%
HDV	On-road	6.6	95%	6%	0.3%
HDV	Subtotal	7	100%	6%	0.3%
Port	Total	115		100%	5.5%
SoCAB AQMP	Total	2,085			

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Table 7.6: 2019 NO_x Emissions Contribution, tons and %

			Percent NO _x	Emissions	s of Total
Category	Subcategory	NO_x	Category	Port	SoCAB
					AQMP
OGV	Auto carrier	164	4%	2%	0.1%
OGV	Bulk vessel	222	6%	3%	0.2%
OGV	Containership	1,694	43%	26%	1.2%
OGV	Cruise	477	12%	7%	0.3%
OGV	General cargo	47	1%	1%	0.0%
OGV	Ocean tugboat	9	0%	0%	0.0%
OGV	Miscellaneous	227	6%	3%	0.2%
OGV	RoRo	10	0%	0%	0.0%
OGV	Tanker	1,134	28%	17%	0.8%
OGV	Subtotal	3,983	100%	60%	2.9%
Harbor Craft	Assist tug	153	24%	2%	0.1%
Harbor Craft	Harbor tug	46	7%	1%	0.0%
Harbor Craft	Ferry	126	20%	2%	0.1%
Harbor Craft	Ocean tugboat	182	29%	3%	0.1%
Harbor Craft	Government	51	8%	1%	0.0%
Harbor Craft	Excursion	19	3%	0%	0.0%
Harbor Craft	Crewboat	55	9%	1%	0.0%
Harbor Craft	Work boat	4	1%	0%	0.0%
Harbor Craft	Subtotal	637	100%	10%	0.5%
CHE	RTG crane	71	26%	1%	0.1%
CHE	Forklift	12	4%	0%	0.0%
CHE	Top handler, side pick	126	46%	2%	0.1%
CHE	Other	11	4%	0%	0.0%
CHE	Yard tractor	55	20%	1%	0.0%
CHE	Subtotal	274	100%	4%	0.2%
Locomotives	Switching	31	5%	0%	0.0%
Locomotives	Line haul	561	95%	8%	0.4%
Locomotives	Subtotal	592	100%	9%	0.4%
HDV	On-Terminal	160	14%	2%	0.1%
HDV	On-road	967	86%	15%	0.7%
HDV	Subtotal	1,127	100%	17%	0.8%
Port	Total	6,613		100%	4.8%
SoCAB AQMP	Total	136,564			

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Table 7.7: 2019 SO_x Emissions Contribution, tons and %

			Percent SO _x	Emissions	s of Total
Category	Subcategory	SO_x	Category	Port	SoCAB
					AQMP
OGV	Auto carrier	5	3%	3%	0%
OGV	Bulk vessel	9	4%	4%	0%
OGV	Containership	67	32%	31%	1%
OGV	Cruise	19	9%	9%	0%
OGV	General cargo	2	1%	1%	0%
OGV	Ocean tugboat	0	0%	0%	0%
OGV	Miscellaneous	9	4%	4%	0%
OGV	RoRo	3	1%	1%	0%
OGV	Tanker	94	45%	44%	2%
OGV	Subtotal	209	100%	97.4%	3%
Harbor Craft	Assist tug	0.14	24%	0%	0%
Harbor Craft	Harbor tug	0.04	7%	0%	0%
Harbor Craft	Ferry	0.12	21%	0%	0%
Harbor Craft	Ocean tugboat	0.15	26%	0%	0%
Harbor Craft	Government	0.06	10%	0%	0%
Harbor Craft	Excursion	0.02	3%	0%	0%
Harbor Craft	Crewboat	0.05	9%	0%	0%
Harbor Craft	Work boat	0.00	1%	0%	0%
Harbor Craft	Subtotal	1	100%	0%	0%
CHE	RTG crane	0.1	7%	0%	0%
CHE	Forklift	0.0	2%	0%	0%
CHE	Top handler, side pick	0.4	33%	0%	0%
CHE	Other	0.0	3%	0%	0%
CHE	Yard tractor	0.7	54%	0%	0%
CHE	Subtotal	1	100%	1%	0%
Locomotives	Switching	0.0	7%	0%	0%
Locomotives	Line haul	0.5	93%	0%	0%
Locomotives	Subtotal	1	100%	0%	0%
HDV	On-Terminal	0.3	11%	0%	0%
HDV	On-road	2.7	89%	1%	0%
HDV	Subtotal	3	100%	1%	0%
Port	Total	214		100%	3.5%
SoCAB AQMI	P Total	6,100			

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Table 7.8: 2019 CO $_2\mathrm{e}$ Emissions Contribution, metric tons and %

			Percent Emiss	sions of Total
Category	Subcategory	CO_2e	Category	Port
OGV	Auto carrier	7,618	3%	1%
OGV	Bulk vessel	12,791	4%	2%
OGV	Containership	93,927	32%	12%
OGV	Cruise	26,420	9%	3%
OGV	General cargo	2,784	1%	0%
OGV	Ocean tugboat	455	0%	0%
OGV	Miscellaneous	12,159	4%	2%
OGV	RoRo	4,294	1%	1%
OGV	Tanker	131,236	45%	16%
OGV	Subtotal	291,774	100%	36%
Harbor Craft	Assist tug	12,386	24%	2%
Harbor Craft	Harbor tug	3,638	7%	0%
Harbor Craft	Ferry	10,670	21%	1%
Harbor Craft	Ocean tugboat	13,361	26%	2%
Harbor Craft	Government	4, 970	10%	1%
Harbor Craft	Excursion	1,509	3%	0%
Harbor Craft	Crewboat	4,788	9%	1%
Harbor Craft	Work boat	375	1%	0%
Harbor Craft	Subtotal	51,698	100%	6%
CHE	RTG crane	7,891	7%	1%
CHE	Forklift	2,800	3%	0%
CHE	Top handler, side pick	38,254	35%	5%
CHE	Other	3,549	3%	0%
CHE	Yard tractor	56,558	52%	7%
CHE	Subtotal	109,052	100%	14%
Locomotives	Switching	3,723	8%	0%
Locomotives	Line haul	43,516	92%	5%
Locomotives	Subtotal	47,239	100%	6%
HDV	On-Terminal	35,239	11%	4%
HDV	On-road	271,865	89%	34%
HDV	Subtotal	307,104	100%	38%
Port	Total	806,866		100%

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SECTION 8 COMPARISON OF 2019 AND 2005 FINDINGS AND EMISSION ESTIMATES

This section provides a comparison of the emission estimates for 2019 and 2005 by source category. The baseline year used to compare every annual inventory is 2005. If there was a change in an emissions estimation methodology in 2019, the 2005 emissions were recalculated using 2005 activity data with the new methodology to provide a valid basis for comparison. Due to rounding, the values may not add up to the whole number values for the percentage change or total emissions at the bottom of each table.

Table 8.1: 2005-2019 Port Emissions Comparison by Source Category, tons, metric tons and %

	PM_{10}	PM _{2.5}	DPM	NO_x	SO_x	CO	HC	CO_2e
	tons	tons	tons	tons	tons	tons	tons	MT
2005								
Ocean-going vessels	720	577	605	6,726	6,952	537	236	394,186
Harbor craft	45	41	45	1,107	5	294	70	44,746
Cargo handling equipment	47	44	47	1,289	11	398	65	103,710
Locomotives	43	40	43	1,273	76	179	66	60,579
Heavy-duty vehicles	205	196	205	5,273	37	1,523	318	391,610
Total	1,060	898	945	15,667	7,081	2,931	755	994,832
2019								
Ocean-going vessels	83	78	62	3,983	209	336	151	291,774
Harbor craft	22	20	22	637	1	458	69	51,698
Cargo handling equipment	4	4	3	274	1	697	29	109,052
Locomotives	21	20	21	592	1	135	33	47,239
Heavy-duty vehicles	7	7	7	1,127	3	172	28	307,104
Total	138	129	115	6,613	214	1,799	309	806,866
Change between 2005 an	d 2019	(perce	nt)					
Ocean-going vessels	-88%	-86%	-90%	-41%	-97%	-37%	-36%	-26%
Harbor craft	-52%	-52%	-52%	-42%	-87%	56%	-1%	16%
Cargo handling equipment	-91%	-91%	-94%	-79%	-89%	75%	-55%	5%
Locomotives	-50%	-51%	-50%	-53%	-99%	-24%	-51%	-22%
Heavy-duty vehicles	-96%	-96%	-97%	-79%	-92%	-89%	-91%	-22%
Total	-87%	-86%	-88%	-58%	-97%	-39%	-59%	-19%

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Table 8.2 provides a comparison of the number of vessel calls and container cargo throughput as well as the average TEUs per containership call between 2005 and 2019. Compared to 2005, container throughput is up 14%, while overall containership arrivals to POLB are down 27%. The average number of containers per containership is up 57% which is indicative of larger vessels calling at POLB.

Table 8.2: 2005-2019 Container Throughput and Vessel Call Comparison

Year	Container Throughput (TEU)	All Arrivals	Containership Arrivals	Average TEU per Call
2005	6,709,818	2,690	1,332	5,037
2019	7,632,032	2,104	967	7,892
Change	14%	-22%	-27%	57%

Table 8.3 presents the total net change in emissions for all source categories in 2019 compared to 2005.

Table 8.3: 2005-2019 Emissions Comparison, tons, metric tons and %

Year	PM ₁₀	PM _{2.5}	DPM	NO _x	SO _x	СО	НС	CO ₂ e
2005	1,060	898	945	15,667	7,081	2,931	755	994,832
2019	138	129	115	6,613	214	1,799	309	806,866
Change	-922	-769	-830	-9,054	-6,867	-1,132	-446	-187,966
Change (%)	-87%	-86%	-88%	-58%	-97%	-39%	-59%	-19%

The following paragraphs summarize the overall reasons for the differences in 2005 and 2019 emissions by source category.

Ocean-Going Vessels

Emissions from OGV were lower in 2019 compared to 2005 levels as a result of significant increased participation in the Port's Vessel Speed Reduction program, implementation of the Green Flag incentive program, CARB's low sulfur marine fuel regulation requiring distillate fuels used by ocean going vessels with a maximum sulfur content of 0.1%, North American Emission Control Area (ECA), and implementation of the CARB's Vessel At-Berth shore power regulation. Emission reductions have also occurred due to increased vessel efficiency and utilization due to the deployment of larger container vessels that has resulted in fewer vessel calls. Additionally, industry consolidation and an increase in vessel alliances and sharing agreements has also resulted in better vessel utilization.

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Harbor Craft

Harbor craft emissions decreased for all pollutants, except for CO and CO₂e. The decrease is due to the turnover to newer engines which have lower emission standards and the use of lower sulfur content fuel. Between 2005 and 2019, fleet turnover was accelerated as a result of CARB's in-use harbor craft regulations and grant funding made available, such as Carl Moyer and EPA grants, for the replacement of older engines with newer and cleaner engines. The increase in CO and CO₂e emissions is related to the impact from the introduction of cleaner engines that do not have lower standards and the increase in energy consumption in 2019 as compared to 2005.

Cargo Handling Equipment

Cargo handling equipment emissions decreased for all pollutants, except for CO and CO₂e. The decrease is due to fleet turnover to newer CHE which have lower emission standards and use of lower sulfur content fuel. Between 2005 and 2009, fleet turnover was accelerated as a result of the continued replacement and retrofit of existing equipment with cleaner engines and implementation of CAAP measures and the CARB in-use CHE regulation resulted in a cleaner fleet. The increase in CO emissions from cargo handling equipment is attributed to the addition of several gasoline-fuel yard tractors with higher CO emission rates compared to diesel yard tractors. The increase in CO₂e is mainly due to the increase in energy consumption in 2019 as compared to 2005 and lack of any CO₂e emission standards.

Locomotives

Emissions from rail locomotives were lower in 2019 compared to 2005 due in part to the turnover of locomotives to cleaner ultra-low emissions switching locomotives in the PHL and UP fleets. In addition, use of cleaner fuels and cleaner line haul locomotives by both UP and BNSF contributed to the reduced emissions.

Heavy-Duty Vehicles

Truck emissions were significantly lower in 2019 compared to 2005 due to the implementation of the Port's Clean Trucks Program requiring the use of trucks that meet cleaner on-road engine emission standards. Other factors include normal fleet turnover and decreased total vehicle miles travelled due to the increase in utilization of on-dock rail and changes in regional travel patterns.

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Ocean-Going Vessels

Overall energy consumption (in terms of kWh) by OGV emission sources in 2005 and 2019 are shown in Table 8.4. The kWh associated with the Advanced Maritime Emission Control System (AMECS) technology generators are included with the auxiliary engine kWh shown in the table. The main engine activity has decreased through the years mainly due to the VSR program and fewer vessel calls, while the auxiliary engine activity has decreased due to shore power regulation and fewer vessel calls. The boiler activity increase is due to larger vessels staying longer at berth and no program or regulation to decrease the boiler activity.

Table 8.4: 2005-2019 OGV Energy Consumption Comparison by Emission Source, kWh

Year	All Emission Sources	Main Eng	Aux Eng	Boiler
2005	507,488,985	153,369,455	229,580,036	124,539,494
2019	369,415,669	84,147,313	142,415,734	142,852,622
Change	-27%	-45%	-38%	15%

The various emission reduction strategies for ocean-going vessels that were in effect in 2019 are listed in Table 8.5. A column has been added for vessels that used the Advanced Maritime Emission Control System (AMECS) technology as an alternative technology to shore power to comply with the CARB's Vessel At-Berth shore power regulation.

Table 8.5: 2005-2019 OGV Emission Reduction Strategies

Percent (%) of All Calls							
Year	Fuel Switch	Fuel Switch	VSR	VSR	Shore	AMECS	
	Aux Eng	Main Eng	20 nm	40 nm	Power		
2005	14%	0%	68%	0%	0%	0%	
2019	100%	100%	98%	93%	49%	1%	

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Table 8.6 summarizes the share of main engine IMO NO_x standards tier calls (Tier) for 2005 and 2019. The No Tier column represents vessels that do not have diesel engines, such as steamships. Tier I refers to calls by vessels meeting or exceeding Tier I standards (vessels constructed from 2000-2010), Tier II refers to calls by vessels meeting or exceeding Tier II standards (vessels constructed from 2011-2015), and Tier III refers to calls by vessels meeting or exceeding the Tier III standards, which are in effect in the North American ECA for vessels constructed on or after January 1, 2016.

Table 8.6: 2005-2019 OGV Main Engine Calls by IMO NO_x Tiers

Year	IMO	IMO	IMO	IMO	No
	Tier 0	Tier I	Tier II	Tier III	Tier
2005	54%	42%	0%	0.0%	4%
2019	15%	56%	28%	0.4%	0.1%

In 2019, one containership and five tanker vessels that visited the Port, met Tier III NO_x emission standards. NO_x emissions for Tier III vessels are 75% cleaner than Tier II vessels.

Harbor Craft

As shown in Table 8.7, compared to 2005, the harbor craft population count operating at the Port in 2019 decreased by 14%, and total engine count decreased only by 1%. However, there was a 16% increase in the overall energy consumption (kWh) from 2005 to 2019.

Table 8.7: 2005-2019 Harbor Craft Count and Energy Consumption Comparison

Year	Vessel Count	Engine Count	Total kWh
2005	92	301	67,684,712
2019	79	297	78,199,327
Change (%)	-14%	-1%	16%

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Table 8.8 summarizes the distribution of engines based on EPA's engine standards for 2005 and 2019. Since 2005, the percentage of Tier 2 and Tier 3 engines increased significantly due to the introduction of newer vessels with newer engines into the fleet and replacements of existing higher-emitting engines with cleaner engines. Over the years, with better data collection techniques and better record keeping required with grant funded repowers, the number of engines of unknown tier level has decreased significantly.

Table 8.8: 2005-2019 Harbor Craft Engine Tier Change, %

	2005	2019	
	Engine	Engine	% Change
	Count	Count	
Unknown	102	2	-98%
Tier 0	86	7	-92%
Tier 1	102	14	-86%
Tier 2	11	159	1345%
Tier 3	0	115	100%
Total	301	297	-1%

Table 8.9 compares the harbor craft energy consumption (kWh) by engine tier. In 2019, 92% of energy consumed by harbor craft is from Tier 2 and 3 engines.

Table 8.9: 2005-2019 Engine Energy and Activity Change, kWh and %

Engine	2005	2005	2019	2019
Tier	kWh	% of Total	kWh	% of Total
Tier 0	44,096,837	65.2%	101,183	0.1%
Tier 1	23,254,327	34.4%	6,186,173	7.9%
Tier 2	333,548	0.5%	52,582,476	67.2%
Tier 3	0	0.0%	19,329,496	24.7%
Total	67,684,712	100%	78,199,327	100%

Cargo Handling Equipment

Between 2005 and 2019, there was a 17% increase in the equipment count to accommodate an increase in TEU throughput and operational changes at the Port over the years. The largest increase is in electric equipment added at the Port. Despite the equipment count increase, there was only a 2% increase in energy consumption for fossil-fueled equipment, measured as total kWh. Table 8.10 only shows the energy consumption (in kWh) from fossil-fueled equipment. It does not include electric equipment consumption.

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Table 8.10: 2005-2019 CHE Count and Energy Consumption Comparison

Year	Population	Activity (kWh)
2005	1,259	134,618,521
2019	1,478	137,925,864
Change (%)	17%	2%

Table 8.11 shows the equipment energy consumption (kWh) comparison for diesel fueled equipment by diesel engine tier and by non-diesel fueled equipment for calendar years 2019 and 2005. Among diesel equipment, 77% of the energy consumed in 2019, is from equipment with onroad engines and Tier 4 engines.

Table 8.11: CHE Energy Consumption Comparison by Engine Tier, kWh

Engine Type	Engine Tier	2005 kWh	2005 % of Total	2019 kWh	2019 % of Total
Diesel	Tier 0	12,023,155	9%	45,117	0.03%
Diesel	Tier 1	65,059,472	48%	7,600,725	6%
Diesel	Tier 2	49,337,838	37%	7,671,966	6%
Diesel	Tier 3	41,636	0.03%	2,565,114	2%
Diesel	Tier 4i	0	0%	21,983,491	16%
Diesel	Tier 4f	0	0%	45,695,380	33%
Diesel	Onroad	6,610,773	5%	37,886,508	27%
Gasoline		3,866	0.003%	13,335,965	10%
Propane		1,541,782	1%	1,141,597	1%
Total		134,618,521	100%	137,925,864	100%

Tables 8.12 and 8.13 compare the CHE emission reduction technologies and fuels used in 2019 with those used in 2005. There was a significant increase in the number of CHE equipped with cleaner on-road engines in 2019. Due to equipment turnover, in 2019 there are no longer equipment retrofitted with DOCs. All of the DPF retrofits installed are on equipment at Tier 3 or lower level.

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Table 8.12: 2005-2019 CHE Emission Reduction Technology Equipment Count Comparison

Equipment	2005 DOC	2019 DOC	2005 On-road	2019 On-road	2005 DPF	2019 DPF	2005 BlueCAT	2019 BlueCAT	2005 Hybrid	2019 Hybrid
			Engine	Engine					·	
Forklift	40	0	0	0	0	36	0	11	0	0
RTG crane	11	0	0	0	0	21	0	0	0	15
Side handler	42	0	0	0	0	6	0	0	0	0
Top handler	92	0	0	0	0	50	0	0	0	0
Yard tractor	514	0	53	344	0	0	0	0	0	0
Other	2	0	0	5	0	5	0	5	0	0
Total	701	0	53	349	0	118	0	16	0	15

Table 8.13: 2005-2019 CHE Equipment Count by Fuel Type Comparison

	2005	2019	2005	2019	2005	2019	2005	2019	2005	2019
Equipment	Emulsified	Emulsified	O2	O2	ULSD	ULSD	Propane	Propane	Gasoline	Gasoline
	Fuel	Fuel	Diesel	Diesel			Engine	Engine	Engine	Engine
Forklift	3	0	4	0	0	98	122	102	1	24
RTG crane	16	0	12	0	0	54	0	0	0	0
Side handler	4	0	8	0	0	7	0	0	0	0
Top handler	10	0	10	0	0	188	0	0	0	0
Yard tractor	151	0	81	0	0	570	0	2	0	134
Other	2	0	0	0	0	67	11	12	1	2
Total	186	0	115	0	0	984	133	116	2	160

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Table 8.14 shows a comparison of CHE counts by equipment type. In total, there was a 17% increase in equipment count from 2005 to 2019, with the largest increase for top handlers. In 2005, the count of electric ship to shore cranes was not included, therefor not available for comparison to total electric equipment count change. Electric equipment count has increased recently at the Port.

Table 8.14: 2005-2019 CHE Equipment Count and Change, %

Equipment	2005	2019	Change
Forklift	295	232	-21%
RTG crane	85	54	-36%
Side handler	43	7	-84%
Top handler	113	188	66%
Yard tractor	641	706	10%
Sweeper	15	20	33%
Electric	na	218	na
Other	67	53	-21%
Total	1,259	1,478	17%

Table 8.15 shows the electric equipment count for 2019 and compares to 2005. In 2005, the count of the electric ship to shore cranes was not included in the 2005 EI.

Table 8.15: 2005-2019 CHE Count of Electric Equipment

	2005	2019
Equipment	Electric	Electric
AGV	0	72
ASC	0	47
Crane	0	6
Electric pallet jack	2	2
Forklift	3	8
Man Lift	0	2
Material handler	0	1
Ship to shore crane	na	72
Sweeper	0	1
Truck	0	6
Yard tractor	0	1
Total	5	218

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Locomotives

Table 8.16 shows the various throughput comparisons for rail transportation in 2005 and 2019. The total port throughput between calendar years 2005 and 2019 was higher by 14% in 2019. The ondock rail throughput was higher in 2019 than in 2005. The on-dock rail percent of total throughput increased from 16% to 21% between 2005 and 2019.

Table 8.16: 2005-2019 Container Throughput Comparison, TEU and %

	2005	2019	Change
Total Port Throughput	6,709,818	7,632,032	14%
Total On-Dock Rail*	1,094,765	1,616,992	48%
% On-Dock	16%		

^{*}Based on average of 1.8 TEUs per container

Heavy-Duty Vehicles

Emissions from the HDV source category continue to be far lower than in 2005 due largely to the following factors affecting the overall age of the truck fleet and average idling times compared with 2005.

- Newer fleet of trucks due to the Port's Clean Trucks Program (CTP).
- The terminals optimized their gate systems and the use radio frequency identification (RFID) readers to identify trucks complying with the CTP provisions, which help reduce idling time.
- Automation and continuous improvement of turn time at terminals.

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Table 8.17 shows total port-wide idling times reported in 2005 and 2019. Reported idling time decreased overall despite increases in TEU throughput and truck trips.

Table 8.17: 2005-2019 HDV Total Idling Time Comparison, hours and %

	Total
EI Year	Idling Time
	(hours)
2005	3,854,273
2019	2,857,207
Change (%)	-26%

Table 8.18 compares the vehicle miles traveled by heavy-duty trucks in 2005 and 2019. Reported on-terminal VMT in 2019 was higher than in 2005 because several terminals re-evaluated their operations and provided higher estimates of average on-terminal driving distances than in past years.

Table 8.18: 2005-2019 HDV Vehicle Miles Traveled Comparison, miles and %

Activity Locat	2005 VMT	2019 VMT	Change %
On-Terminal	2,866,476	5,237,843	83%
On-Road	213,716,895	169,505,239	-21%
	216,583,371	174,743,082	-19%

Compared to 2005, the average age of trucks visiting the Port has decreased from 11 to 7.6 years due to the Port's Clean Trucks Program launched in October 2008 requiring the progressive ban of pre-2007 trucks between 2008 and up to present.

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SECTION 9 METRICS

To measure the effectiveness of emissions reduction strategies and progress towards the San Pedro Bay Emission Reduction Standards, the Port has established metrics to track emissions per unit of work by source category. Since port operations are varied with a mix of container and non-container cargo, the metrics listed in this section are based on TEU throughput and metric tons of cargo moved through the Port. Table 9.1 compares the amount of throughput in 2019 and 2005 in TEU.

Table 9.1: 2005-2019 Container and Cargo Throughput and Change, %

	Container
Year	Throughput
	(TEU)
2005	6,709,818
2019	7,632,032
Change (%)	14%

Tables 9.2 shows the port-wide tons of emissions per 10,000 TEU in 2005 and 2019. The tons of emissions per 10,000 TEU of cargo decreased in 2019; an improvement from 2005.

Table 9.2: 2005-2019 Emission Efficiency Metric Comparison, annual tons per 10,000 TEU

Year	PM ₁₀	PM _{2.5}	DPM	NO _x	SO _x	СО	нс	CO ₂ e
2005	1.58	1.34	1.41	23.35	10.55	4.37	1.13	1,483
2019	0.18	0.17	0.15	8.66	0.28	2.36	0.41	1,057
Change (%)	-89%	-87%	-89%	-63%	-97%	-46%	-64%	-29%

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SECTION 10 CAAP PROGRESS

The Port's annual emissions inventories serve as the primary tool to track progress towards achieving the Clean Air Action Plan's San Pedro Bay Standards. These standards consist of the following emission reduction goals:

- Mass Emissions Reduction Standards:
 - o By 2014, reduce emissions by 72% for DPM, 22% for NO_x, and 93% for SO_x from 2005 levels
 - By 2023, reduce emissions by 77% for DPM, 59% for NO_x, and 93% for SO_x from 2005 levels

The reduction of goods movement-related emissions in 2019 compared to 2005 can be attributed to a number of initiatives, including emissions reduction programs identified in the CAAP and implemented by the Port, such as the Clean Trucks Program, Green Flag Vessel Speed Reduction Program, as well as CARB regulations requiring the use of shore power for vessels at berth and the use of cleaner vessel fuels.

Economic forecasts indicate cargo volumes through the Port of Long Beach will increase in upcoming years. While emission reductions are expected to continue in the future toward meeting the CAAP goals, the rapid rate of emission reductions in recent years may not continue as cargo volumes increase. However, continued implementation of the CAAP and regulatory programs will continue to provide emissions benefits from goods movement-related sources and may offset impacts from the projected growth in trade.

The mass emissions reduction standards are represented as a percentage reduction of emissions from 2005 levels. Table 10.1 summarizes the standardized estimates of emissions by source category for calendar years 2005 and 2019 using the 2019 methodology.



Table 10.1: 2005-2019 Emissions in tons and Reductions in % Compared to CAAP San Pedro Bay Emissions Reduction Standards

Category	2005			2019
DPM (tons)				
Ocean-going vessels	605			62
Harbor craft	45			22
Cargo handling equipment	47			3
Locomotives	43			21
Heavy-duty vehicles	205			7
Total	945			115
Cumulative DPM Emission	ns Reduction	on Achieved in 2019		88%
CAAP San Pedro Bay DPM	M Emission	s Reduction Standards	2014	72%
			2023	77%
NO_x (tons)				
Ocean-going vessels	6,726			3,983
Harbor craft	1,107			637
Cargo handling equipment	1,289			274
Locomotives	1,273			592
Heavy-duty vehicles	5,273			1,127
Total	15,667			6,613
Cumulative NO _x Emission	s Reductio	n Achieved in 2019		58%
CAAP San Pedro Bay NO.	Emissions	Reduction Standards	2014	22%
	Δ.		2023	59%
SO _x (tons)				
Ocean-going vessels	6,952			209
Harbor craft	5			1
Cargo handling equipment	11			1
Locomotives	76			1
Heavy-duty vehicles	37			3
Total	7,081			214
Cumulative SO _x Emissions	s Reduction	Achieved in 2019		97%
CAAP San Pedro Bay SO _x	Emissions	Reduction Standards	2014	93%
			2023	93%



APPENDIX A: REGULATORY AND SAN PEDRO BAY PORTS CLEAN AIR ACTION PLAN (CAAP) MEASURES



APPENDIX A: REGULATORY AND SAN PEDRO BAY PORTS CLEAN AIR ACTION PLAN (CAAP) MEASURES

This appendix summarizes the current regulatory initiatives and Port measures related to port activity that influenced 2019 emissions. Almost all goods movement-related emissions in and around the port come from five emission source categories: OGVs, HDVs, CHE, harbor craft, and locomotives. The responsibility for the emissions control of the majority of these sources falls under the jurisdiction of local (South Coast Air Quality Management District [SCAQMD]), state (CARB), or federal (U.S. Environmental Protection Agency [EPA]) agencies.

Clean Air Action Plan (CAAP) Strategies

At the end of 2017, the Ports of Long Beach and Los Angeles released the final CAAP 2017 Update¹. The CAAP 2017 Update contains new strategies from all sources that move cargo through the ports, including the deployment of zero and near-zero emission trucks and cargo handling equipment, and the expansion of programs that reduce ship emissions. The focus of the Update is to work in collaboration with industry stakeholders, regulatory agencies, local communities, and environmental groups for the next 20 years to reduce emissions and combat climate change. The CAAP 2017 strategies that will affect future emission reductions for both Ports include:

- Advancing the Clean Trucks Program to phase out older trucks and transition to near-zero emissions in the early years and zero-emissions by 2035. Under this program, on March 2020, the boards of harbor commissioners of the City of Long Beach and the City of Los Angeles adopted the Clean Truck Fund Rate of \$10 per loaded TEU moved by truck in and out of port terminals. There are certain exemptions for use of low NO_x and zero emissions trucks. Currently, Port staff are working on strategies to implement the Clean Truck Fund rates and develop priorities and guidance for distributing funds to incentivize transition to near-zero and zero-emission trucks.
- Requiring terminal operators to purchase zero-emissions equipment if feasible, or near-zero or cleanest available when procuring new equipment.
- Further reducing emissions from ships at-berth, and transitioning the oldest, most polluting ships out of the San Pedro Bay fleet.
- Accelerating the deployment of cleaner engines and operational strategies to reduce harbor craft emissions.
- Expanding use of on-dock rail to shift more cargo leaving the port to go by rail.

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¹ www.cleanairactionplan.org/documents/final-2017-clean-air-action-plan-update.pdf



San Pedro Bay Emissions Reduction Standards

The 2017 CAAP Update did not alter the existing 2010 CAAP Update goals that set health risk and emission reduction standards but did incorporate two new emission targets to reduce GHGs from port-related sources as described below.

Health Risk Reduction Standard

To complement the CARB's Air Pollution Reduction Programs including the Diesel Risk Reduction Plan, the Ports of Long Beach and Los Angeles have developed the following standard for reducing overall goods movement-related health risk impacts, relative to 2005 emissions level:

➤ By 2020, reduce the population-weighted cancer risk attributed to port-related DPM pollution by 85% in highly-impacted communities located proximate to port sources and throughout the residential areas in the port region.

Emission Reduction Standard

Consistent with the ports' commitment to meet their fair-share of mass emission reductions of air pollutants, the Ports of Long Beach and Los Angeles developed the following standards for reducing air pollutant emissions from goods movement-related activities, relative to 2005 emission levels:

- ➤ By 2014, reduce emissions of NO_x by 22%, of SO_x by 93%, and of DPM by 72% to support attainment of the national fine particulate matter (PM_{2.5}) standards.
- ➤ By 2023, reduce emissions of NO_x by 59%, of SO_x by 93%, and of DPM by 77% to support attainment of the national and federal 8-hour ozone standards and national fine particulate matter (PM_{2.5}) standards.

2017 CAAP Update New Emission Reduction Targets

- Reduce GHGs from port-related sources to 40% below 1990 levels by 2030
- Reduce GHGs from port-related sources to 80% below 1990 levels by 2050



Regulatory Programs by Source Category

The following tables summarize current regulatory programs and CAAP measures by major source category that influenced 2019 emissions from goods movement-related operations at the Port.

Table A.1: OGV Emission Regulations, Standards and Policies

Agency	Regulation/Standard/Policy	Targeted Pollutants	Implementation Year	Impact
IMO	NO _x Emission Standard for Marine Engines www.imo.org/en/OurWork/Environment/PollutionPrevention/AirP ollution/Pages/Nitrogen-oxides-%28NOx%29-%E2%80%93- Regulation-13.aspx	NO_x	2011 – Tier 2 2016 – Tier 3 for ECA only	Sets NO _x emission standard for auxiliary and propulsion engines over 130 kW output power on newly built vessels
IMO	Low Sulfur Fuel Requirements for Marine Engines www.imo.org/en/OurWork/Environment/PollutionPrevention/AirPollution/Pages/Sulphur-oxides-%28SOx%29-%E2%80%93-Regulation-14.aspx	DPM PM SO _x	2012 ECA – 1% Sulfur 2015 ECA – 0.1% Sulfur	Significantly reduces emissions due to low sulfur content in fuel by creating Emissions Control Area (ECA)
IMO	Energy Efficiency Design Index (EEDI) for International Shipping www.imo.org/en/OurWork/Environment/PollutionPrevention/AirPollution/Pages/Technical-and-Operational-Measures.aspx	CO ₂ and other pollutants	2013	Increases the design efficiencies of ships relating to energy and emissions
IMO	Initial IMO Strategy on reduction of GHG emissions from ships – Resolution MEPC 304 (72) www.unfccc.int/sites/default/files/resource/250_IMO%20submission _Talanoa%20Dialogue_April%202018.pdf	GHG	2050 – 50%	Initial IMO Strategy on reduction of GHG emissions from ships by 50% in 2050 from 2008 level. The ultimate goal is to phase out GHG
EPA	Emission Standards for Marine Diesel Engines above 30 Liters per Cylinder (Category 3 Engines); Aligns with IMO Annex VI marine engine NO _x standards and low sulfur requirement www.epa.gov/otaq/oceanvessels.htm#engine-fuel	DPM PM NO _x SO _x	2011 – Tier 2 2016 – Tier 3	Auxiliary and propulsion on US-Flagged new built vessels; Use of low sulfur fuel



Table A.1 (continued): OGV Emission Regulations, Standards and Policies

Agency	Regulation, Standard, or Policy	Targeted Pollutants	Implementation Year	Impact
CARB	Regulation to Reduce Emissions from Diesel Auxiliary Engines on Ocean-Going Vessels While At-Berth at a California Port www.arb.ca.gov/regact/2007/shorepwr07/shorepwr07.htm and www.arb.ca.gov/ports/shorepower/forms/regulatoryadvisory/regulatory advisory12232013.pdf	All	2014 - 50% 2017 -70% 2020 - 80%	Vessels must use Shore power (or equivalent) requirement to reduce atberth emissions. Compliance levels based on fleet percentage visiting the port.
CARB	Ocean-going Ship Onboard Incineration www.arb.ca.gov/ports/shipincin/shipincin.htm	DPM PM HC	2007	Vessels operators cannot incinerate within 3 nm of the California coast
SPBP CAAP	CAAP Measure – OGV 1 Vessel Speed Reduction (VSR) Program www.cleanairactionplan.org/strategies/ships/	All	2008	Vessel operators within 20 nm and 40 nm of Point Fermin
SPBP CAAP	CAAP Measure – OGV 2 Reduction of At-Berth OGV Emissions www.cleanairactionplan.org/strategies/ships/	All	2014	Shore power requirements. Vessel operators and terminals
SPBP CAAP	CAAP Measure – OGV 5 and 6 Cleaner OGV Engines and OGV Engine Emissions Reduction Technology Improvements www.cleanairactionplan.org/strategies/ships/	DPM PM NO _x	2012	Vessel operators who choose to participate in technology demonstrations and/or Green Ship Incentive Program



Table A.2: Harbor Craft Emission Regulations, Standards and Policies

Agency	Regulation, Standard, or Policy	Targeted Pollutants	Implementation Year	Impact
EPA	Emission Standards for Harbor Craft Engines www.epa.gov/ regulations-emissions-vehicles-and-engines/ domestic- regulations-emissions-marine-compression	All	2009 – Tier 3 2014 – Tier 4 for 800 hp or greater	Commercial marine diesel engines with displacement less than 30 liters per cylinder
CARB	Low Sulfur Fuel Requirement for Harbor Craft www.arb.ca.gov/regact/carblohc/carblohc.htm	DPM PM NO _x SO _x	2006 – 15 ppm	Use of low sulfur diesel fuel in commercial harbor craft operating in SCAQMD
CARB	Regulation to Reduce Emissions from Diesel Engines on Commercial Harbor Craft www.arb.ca.gov/regact/2010/chc10/chc10.htm	DPM PM NO _x	2009 to 2020 - Depending on engine model year	Most harbor craft homeported in SCAQMD must meet more stringent emissions limits according to a compliance schedule
SPBP CAAP	CAAP Measure – HC 1 Performance Standards for Harbor Craft www.cleanairactionplan.org/strategies/harbor-craft/	All	2009 to 2020 - Depending on engine model year	Modernization of harbor craft operating in San Pedro Bay Ports.



Table A.3: Cargo Handling Equipment Emission Regulations, Standards and Policies

Agency	Regulation, Standard, or Policy	Targeted Pollutants	Implementation Year	Impact
EPA	Emission Standards for Non-Road Diesel Powered Equipment www.epa.gov/otaq/standards/nonroad/nonroadci.htm	All	2008-2015	All non-road (also known as off-road) equipment.
CARB	Regulation for Cargo Handling Equipment Operating at Ports and Intermodal Railyards www.arb.ca.gov/regact/2011/cargo11/cargo11.htm	All	2007-2017; Opacity test compliance starting in 2016	All cargo handling equipment operating at ports and intermodal railyards.
CARB	New Emission Standards, Test Procedures, for Large Spark Ignition (LSI) Engine Forklifts and Other Industrial Equipment www.arb.ca.gov/regact/2008/lsi2008/lsi2008.htm	All	2007 – Phase 1 2010 – Phase 2	Emission standards for large spark-ignition engines 25 hp or greater.
CARB	Fleet Requirements for Large Spark Ignition Engines www.arb.ca.gov/regact/2010/offroadlsi10/lsifinalreg.pdf	All	2009-2013	More stringent emissions requirements for fleets of large spark ignition engine equipment fleets.
SPBP CAAP	CAAP Measure – CHE1 Performance Standards for CHE www.cleanairactionplan.org/strategies/cargo-handling-equipment/	All	2007-2014	Turnover to Tier 4 cargo handling equipment per lease renewal agreement



Table A.4: Railroad Locomotives Emission Regulations, Standards and Policies

Agency	Regulation, Standard, or Policy	Targeted Pollutants	Implementation Year	Impact
EPA	Emission Standards for New and Remanufactured Locomotives and Locomotive Engines- Latest Regulation www.epa.gov/otaq/standards/nonroad/locomotives.htm	DPM NO _x	2011 through 2013 – Tier 3 2015 – Tier 4	All new and remanufactured locomotive engines.
EPA	Control of Emissions of Air Pollution from Nonroad Diesel Engines and Fuel www.epa.gov/otaq/fuels/dieselfuels/regulations.htm	SOx PM	2010	All locomotive engines
CARB	Low Sulfur Fuel Requirement for Intrastate Locomotives www.arb.ca.gov/msprog/offroad/loco/loco.htm#intrastate	SO_x NO_x PM	2007	Intrastate locomotives, mainly switchers
CARB	Statewide 1998 and 2005 Memorandum of Understanding (MOUs) www.arb.ca.gov/msprog/offroad/loco/loco.htm#intrastate	NO_x	2010	UP and BNSF locomotives
SPBP CAAP	CAAP Measure – RL1 Pacific Harbor Line (PHL) Rail Switch Engine Modernization www.cleanairactionplan.org/strategies/trains/	PM	2010	PHL switcher engines
SPBP CAAP	CAAP Measure – RL2 Class 1 Line-haul and Switcher Fleet Modernization www.cleanairactionplan.org/strategies/trains/	All	2023 – Tier 3	Class 1 locomotives at ports
SPBP CAAP	CAAP Measure – RL3 New and Redeveloped Near- Dock Rail Yards www.cleanairactionplan.org/strategies/trains/	All	2020 – Tier 4	New near-dock rail yards



Table A.5: Heavy-Duty Vehicles Emission Regulations, Standards and Policies

Agency	Regulation, Standard, or Policy	Targeted Pollutants	Implementation Year	Impact
CARB/EPA	Emission Standards for New 2007+ On-Road Heavy-Duty Vehicles www.arb.ca.gov/msprog/onroadhd/reducstd.htm	NO _x PM	2007 2010	All new on-road diesel heavy-duty vehicles
CARB	Heavy-Duty Vehicle On-Board Diagnostics (OBD and OBDII) Requirement www.arb.ca.gov/msprog/obdprog/section1971_1_clean2013.pdf	NOx PM	2010+	All new on-road heavy-duty vehicles
CARB	Ultra-Low Sulfur Diesel Fuel Requirement www.arb.ca.gov/regact/ulsd2003/ulsd2003.htm	All	2006 - ULSD	All on-road heavy-duty vehicles
CARB	Drayage and Truck and Bus Regulation (amended in 2011 and 2014) www.arb.ca.gov/msprog/onroad/porttruck/drayagevtruckbus.pdf	All	Phase in started in 2009	All drayage trucks operating at California ports
CARB	Low NOx Software Upgrade Program www.arb.ca.gov/msprog/hdsoftware/hdsoftware.htm	NO_x	Starting 2005	1993 to 1998 on-road heavy- duty vehicles that operate in California
CARB	Heavy-Duty Vehicle Greenhouse Gas Emission Reduction Regulation www.arb.ca.gov/cc/hdghg/hdghg.htm	CO_2	Phase 1 starting in 2012	Heavy-duty tractors that pull 53-foot+ trailers in CA
CARB	Assembly Bill 32 requiring GHG reductions targets and Governor's Executive Order B – 30-15 nmw.arb.ca.gov/cc/ab32/ab32.htm and nww.gov.ca.gov/news.php?id=18938	CO_2	GHG emissions reduction goals in 2020	All sectors identified in Climate Change Scoping Plan, including Goods Movement Sector.
SPBP CAAP	CAAP Measure – HDV1 Performance Standards for On-Road Heavy-Duty Vehicles; Clean Truck Program www.cleanairactionplan.org/strategies/trucks/	All	Phase-in starting in 2008	On-road heavy-duty vehicles that operate at POLB must have 2007 or newer engines by 2012.



APPENDIX B: CARGO HANDLING EQUIPMENT DATA



			Equip	EngineTy	Engine	EngineY		Annual			
Port Equip Type	Equip ID	Equip Make		pe	Engine Make Model	ear	HP	Hours Category	DPF le	vel 3	Blue Cat
AGV	AGV001	Gottwald	CT 70 BN	Electric				2395 CHE Elect	ric		
AGV	AGV002	Gottwald	CT 70 BN	Electric				2835 CHE Elect	ric		
AGV	AGV003	Gottwald	CT 70 BN	Electric				2793 CHE Elect	ric		
AGV	AGV004	Gottwald	CT 70 BN	Electric				2751 CHE Elect	ric		
AGV	AGV005	Gottwald	CT 70 BN	Electric				2871 CHE Elect	ric		
AGV	AGV007	Gottwald	CT 70 BN	Electric				2853 CHE Elect	ric		
AGV	AGV008	Gottwald	CT 70 BN	Electric				2664 CHE Elect	ric		
AGV	AGV009	Gottwald	CT 70 BN	Electric				2835 CHE Elect	ric		
AGV	AGV010	Gottwald	CT 70 BN	Electric				2287 CHE Elect	ric		
AGV	AGV011	Gottwald	CT 70 BN	Electric				2750 CHE Elect	ric		
AGV	AGV012	Gottwald	CT 70 BN	Electric				2836 CHE Elect	ric		
AGV	AGV013	Gottwald	CT 70 BN	Electric				2865 CHE Elect	ric		
AGV	AGV014	Gottwald	CT 70 BN	Electric				2766 CHE Elect	ric		
AGV	AGV015	Gottwald	CT 70 BN	Electric				2829 CHE Elect	ric		
AGV	AGV016	Gottwald	CT 70 BN	Electric				2819 CHE Elect	ric		
AGV	AGV017	Gottwald	CT 70 BN	Electric				2872 CHE Elect	ric		
AGV	AGV018	Gottwald	CT 70 BN	Electric				2832 CHE Elect	ric		
AGV	AGV019	Gottwald	CT 70 BN	Electric				2814 CHE Elect	ric		
AGV	AGV020	Gottwald	CT 70 BN	Electric				2768 CHE Elect	ric		
AGV	AGV021	Gottwald	CT 70 BN	Electric				2690 CHE Elect	ric		
AGV	AGV022	Gottwald	CT 70 BN	Electric				2779 CHE Elect	ric		
AGV	AGV023	Gottwald	CT 70 BN	Electric				2509 CHE Elect	ric		
AGV	AGV024	Gottwald	CT 70 BN	Electric				2860 CHE Elect	ric		
AGV	AGV025	Gottwald	CT 70 BN	Electric				3113 CHE Elect	ric		
AGV	AGV026	Gottwald	CT 70 BN	Electric				2570 CHE Elect	ric		
AGV	AGV027	Gottwald	CT 70 BN	Electric				2779 CHE Elect	ric		
AGV	AGV028	Gottwald	CT 70 BN	Electric				2855 CHE Elect	ric		
AGV	AGV029	Gottwald	CT 70 BN	Electric				2306 CHE Elect	ric		
AGV	AGV030	Gottwald	CT 70 BN	Electric				2919 CHE Elect	ric		
AGV	AGV031	Gottwald	CT 70 BN	Electric				2686 CHE Elect	ric		
AGV	AGV032	Gottwald	CT 70 BN	Electric				2887 CHE Elect	ric		
AGV	AGV033	Gottwald	CT 70 BN	Electric				2768 CHE Elect	ric		
AGV	AGV034	Gottwald	CT 70 BN	Electric				2937 CHE Elect	ric		
AGV	AGV035	Gottwald	CT 70 BN	Electric				2933 CHE Elect	ric		
AGV	AGV036	Gottwald	CT 70 BN	Electric				2540 CHE Elect	ric		
AGV	AGV037	Gottwald	CT 70 BN	Electric				2449 CHE Elect	ric		
AGV	AGV038	Gottwald	CT 70 BN	Electric				2698 CHE Elect	ric		
AGV	AGV039	Gottwald	CT 70 BN	Electric				2834 CHE Elect	ric		



Port Equip Type	Equip ID	Equip Make	Equip Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	HP	Annual Hours	Category	DPF level 3	Blue Cat
AGV	AGV041	Gottwald	CT 70 BN	Electric	8					CHE Electric		
AGV	AGV042	Gottwald	CT 70 BN	Electric					2874	CHE Electric		
AGV	AGV043	Gottwald	CT 70 BN	Electric					2239	CHE Electric		
AGV	AGV044	Gottwald	CT 70 BN	Electric					2799	CHE Electric		
AGV	AGV045	Gottwald	CT 70 BN	Electric					2700	CHE Electric		
AGV	AGV046	Gottwald	CT 70 BN	Electric					2961	CHE Electric		
AGV	AGV047	Gottwald	CT 70 BN	Electric					2770	CHE Electric		
AGV	AGV048	Gottwald	CT 70 BN	Electric					2938	CHE Electric		
AGV	AGV049	Gottwald	CT 70 BN	Electric					2856	CHE Electric		
AGV	AGV050	Gottwald	CT 70 BN	Electric					2891	CHE Electric		
AGV	AGV051	Gottwald	CT 70 BN	Electric					2948	CHE Electric		
AGV	AGV052	Gottwald	CT 70 BN	Electric					2920	CHE Electric		
AGV	AGV053	Gottwald	CT 70 BN	Electric					2766	CHE Electric		
AGV	AGV054	Gottwald	CT 70 BN	Electric					2930	CHE Electric		
AGV	AGV055	Gottwald	CT 70 BN	Electric					2629	CHE Electric		
AGV	AGV056	Gottwald	CT 70 BN	Electric					2541	CHE Electric		
AGV	AGV057	Gottwald	CT 70 BN	Electric					2670	CHE Electric		
AGV	AGV058	Gottwald	CT 70 BN	Electric					140	CHE Electric		
AGV	AGV059	Gottwald	CT 70 BN	Electric					905	CHE Electric		
AGV	AGV060	Gottwald	CT 70 BN	Electric					1289	CHE Electric		
AGV	AGV061	Gottwald	CT 70 BN	Electric					909	CHE Electric		
AGV	AGV062	Gottwald	CT 70 BN	Electric					750	CHE Electric		
AGV	AGV063	Gottwald	CT 70 BN	Electric					314	CHE Electric		
AGV	AGV064	Gottwald	CT 70 BN	Electric					563	CHE Electric		
AGV	AGV065	Gottwald	CT 70 BN	Electric					944	CHE Electric		
AGV	AGV066	Gottwald	CT 70 BN	Electric					933	CHE Electric		
AGV	AGV067	Gottwald	CT 70 BN	Electric					480	CHE Electric		
AGV	AGV068	Gottwald	CT 70 BN	Electric					977	CHE Electric		
AGV	AGV069	Gottwald	CT 70 BN	Electric					222	CHE Electric		
AGV	AGV070	Gottwald	CT 70 BN	Electric					153	CHE Electric		
AGV	AGV071	Gottwald	CT 70 BN	Electric					617	CHE Electric		
AGV	AGV072	Gottwald	CT 70 BN	Electric					428	CHE Electric		
AGV	AGV073	Gottwald	CT 70 BN	Electric					178	CHE Electric		
Automatic Stacking Crane	ASC01L	ZPMC		Electric					2531	CHE Electric		
Automatic Stacking Crane	ASC01W	ZPMC		Electric					2182	CHE Electric		
Automatic Stacking Crane	ASC02L	ZPMC		Electric					2553	CHE Electric		
Automatic Stacking Crane	ASC02W	ZPMC		Electric					1696	CHE Electric		
Automatic Stacking Crane	ASC03L	ZPMC		Electric					2619	CHE Electric		
Automatic Stacking Crane	ASC03W	ZPMC		Electric					1835	CHE Electric		



Port Equip Type	Equip ID	Equip Equip Make Model	EngineTy pe En	gine Make	Engine Model	EngineY ear	HP	Annual Hours	Category	DPF level 3	Blue Cat
Automatic Stacking Crane	ASC04L	ZPMC	Electric	6					CHE Electric		
Automatic Stacking Crane	ASC04W	ZPMC	Electric					2376	CHE Electric		
Automatic Stacking Crane	ASC05L	ZPMC	Electric					2813	CHE Electric		
Automatic Stacking Crane	ASC05W	ZPMC	Electric					2418	CHE Electric		
Automatic Stacking Crane	ASC06L	ZPMC	Electric					2344	CHE Electric		
Automatic Stacking Crane	ASC06W	ZPMC	Electric					1502	CHE Electric		
Automatic Stacking Crane	ASC07L	ZPMC	Electric					2534	CHE Electric		
Automatic Stacking Crane	ASC07W	ZPMC	Electric					2137	CHE Electric		
Automatic Stacking Crane	ASC08L	ZPMC	Electric					2641	CHE Electric		
Automatic Stacking Crane	ASC08W	ZPMC	Electric					2422	CHE Electric		
Automatic Stacking Crane	ASC09L	ZPMC	Electric					2598	CHE Electric		
Automatic Stacking Crane	ASC09W	ZPMC	Electric					2348	CHE Electric		
Automatic Stacking Crane	ASC10L	ZPMC	Electric					2507	CHE Electric		
Automatic Stacking Crane	ASC10W	ZPMC	Electric					2521	CHE Electric		
Automatic Stacking Crane	ASC11L	ZPMC	Electric					2945	CHE Electric		
Automatic Stacking Crane	ASC11W	ZPMC	Electric					2136	CHE Electric		
Automatic Stacking Crane	ASC12L	ZPMC	Electric					2504	CHE Electric		
Automatic Stacking Crane	ASC12W	ZPMC	Electric					2480	CHE Electric		
Automatic Stacking Crane	ASC13L	ZPMC	Electric					2729	CHE Electric		
Automatic Stacking Crane	ASC13W	ZPMC	Electric					2215	CHE Electric		
Automatic Stacking Crane	ASC14L	ZPMC	Electric					2715	CHE Electric		
Automatic Stacking Crane	ASC14W	ZPMC	Electric					2391	CHE Electric		
Automatic Stacking Crane	ASC15L	ZPMC	Electric					2661	CHE Electric		
Automatic Stacking Crane	ASC15W	ZPMC	Electric					2467	CHE Electric		
Automatic Stacking Crane	ASC16L	ZPMC	Electric					2974	CHE Electric		
Automatic Stacking Crane	ASC16W	ZPMC	Electric					2321	CHE Electric		
Automatic Stacking Crane	ASC17L	ZPMC	Electric					2882	CHE Electric		
Automatic Stacking Crane	ASC17W	ZPMC	Electric					2264	CHE Electric		
Automatic Stacking Crane	ASC18L	ZPMC	Electric					2761	CHE Electric		
Automatic Stacking Crane	ASC18W	ZPMC	Electric						CHE Electric		
Automatic Stacking Crane	ASC19L	ZPMC	Electric					2672	CHE Electric		
Automatic Stacking Crane	ASC19W	ZPMC	Electric						CHE Electric		
Automatic Stacking Crane	ASC20L	ZPMC	Electric					2613	CHE Electric		
Automatic Stacking Crane	ASC21L	ZPMC	Electric						CHE Electric		
Automatic Stacking Crane	ASC22L	ZPMC	Electric						CHE Electric		
Automatic Stacking Crane	ASC23L	ZPMC	Electric						CHE Electric		
Automatic Stacking Crane	ASC23W	ZPMC	Electric						CHE Electric		
Automatic Stacking Crane	ASC24L	ZPMC	Electric						CHE Electric		
Automatic Stacking Crane	ASC24W	ZPMC	Electric					2245	CHE Electric		



Port Equip Type	Equip ID	Equip Make	Equip Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	HP	Annual Hours	Category	DPF level 3	Blue Cat
Automatic Stacking Crane	ASC25L	ZPMC		Electric	g					CHE Electric		
Automatic Stacking Crane	ASC25W	ZPMC		Electric					2254	CHE Electric		
Bulldozer	AEP00545	Caterpillar		Diesel			2004	200	1500	CHE Diesel		
Cone Vehicle	IBC 001	Motrec		Diesel	Kubota	V1505-ET04	2016	35	1197	CHE Diesel		
Cone Vehicle	IBC 002	Motrec		Diesel	Kubota	V1505-ET04	2016	35	1812	CHE Diesel		
Cone Vehicle	IBC 003	Motrec		Diesel	Kubota	V1505-ET04	2016	35	2908	CHE Diesel		
Cone Vehicle	IBC 004	Motrec		Diesel	Kubota	V1505-ET04	2016	35	3469	CHE Diesel		
Cone Vehicle	IBC 005	Motrec		Diesel	Kubota	V1505-ET04	2016	35	2427	CHE Diesel		
Crane	218001	Linkbelt	HSP-8015	Diesel	GMC	50435001	1985	334	20	CHE Diesel		
Crane	#2T	Terex	RT555	Diesel	Cummins	QSB 6.7	2016	173	298	CHE Diesel		
Crane	203002	American	325	Electric			1980		0	CHE Electric		
Crane	217002	Gottwald	330EG	Electric			2006		30	CHE Electric		
Crane	IY001	ZPMC		Electric					1983	CHE Electric		
Crane	IY002	ZPMC		Electric					2385	CHE Electric		
Crane	IY003	ZPMC		Electric					2569	CHE Electric		
Crane	IY004	ZPMC		Electric					1221	CHE Electric		
Electric Pallet Jack	#31	Toyota	8HBE30	Electric	Toyota	AC drive mot	c 2013		94	CHE Electric		
Electric Pallet Jack	#32	Toyota	8HBE30	Electric	Toyota	AC drive mot	c 2013		188	CHE Electric		
Excavator	108019	Caterpillar	345B	Diesel	Caterpillar	3176C	2002	322	0	CHE Diesel		
Excavator	108021	Caterpillar	345CL	Diesel	Caterpillar	C13	2005	371	0	CHE Diesel		
Forklift	2009	Taylor		Diesel	Cummins	11.5 T	2002	173	2169	CHE Diesel	8/25/2014	
Forklift	2010	Taylor	THD360L	Diesel	Cummins	11.5 T	2002	173	540	CHE Diesel	8/25/2014	
Forklift	2069	Taylor	TX360M	Diesel	Cummins	11.5 T	2007		340	CHE Diesel	12/1/2011	
Forklift	2793	Taylor	TH350L	Diesel	Cummins	11.5 T	2005	150	659	CHE Diesel	8/25/2014	
Forklift	2794	Taylor	TH350L	Diesel	Cummins	11.5 T	2005	150	970	CHE Diesel	8/25/2014	
Forklift	3001	Caterpillar	P33000D	Diesel	Caterpillar	6M60-TLA3T	2008	148	1680	CHE Diesel		
Forklift	3002	Caterpillar	P33000D	Diesel	Caterpillar	6M60-TLA3T	2008	148	1752	CHE Diesel		
Forklift	3010	Yale	GLP100	Diesel	Vortec	5 T	2012	117	373	CHE Diesel		
Forklift	3016	Taylor	T520M	Diesel	Cummins	25 ton	2008		421	CHE Diesel	12/1/2011	
Forklift	17501	Mitsubishi	FD80	Diesel	Mitsubishi	8 T	2006	117	100	CHE Diesel	1/1/2012	
Forklift	17502	Mitsubishi	FD80	Diesel	Mitsubishi	8 T	2006	117	100	CHE Diesel	1/1/2012	
Forklift	30205	Taylor	X-300M	Diesel	Cummins	QSB6.7	2017	220	2044	CHE Diesel		
Forklift	30206	Taylor	X-300M	Diesel	Cummins	QSB6.7	2017	220	1725	CHE Diesel		
Forklift	30207	Taylor	X-300M	Diesel	Cummins	QSB6.7	2017	220	989	CHE Diesel		
Forklift	30208			Diesel			2018	220	159	CHE Diesel		
Forklift	30290	Taylor	THD 300	Diesel	Cummins	15 T	1990	183	100	CHE Diesel	1/1/2014	
Forklift	30294	Taylor	T-300M	Diesel			2003	165	1094	CHE Diesel	9/10/2014	
Forklift	30295	Taylor	T300M	Diesel	Cummins	QSB5.9	2004	165	1412	CHE Diesel		
Forklift	30296	Taylor	T300M	Diesel	Cummins	QSB5.9	2004	165	1186	CHE Diesel	6/6/2014	



			Equip	EngineTy		Engine	EngineY		Annual		
Port Equip Type	Equip ID			pe	Engine Make	Model	ear	HP	Hours Category	DPF level 3	Blue Cat
Forklift	30300	Taylor	TX300M	Diesel	Cummins		2014		2492 CHE Diesel		
Forklift	30301	Taylor	TX300M	Diesel	Cummins		2014		1886 CHE Diesel		
Forklift	33000	Taylor	tx-330m	Diesel	Cummins	16 T	2011	117	200 CHE Diesel	4/20/2015	
Forklift	33001	Taylor	tx-330m	Diesel	Cummins	16 T	2011	117	200 CHE Diesel	4/20/2015	
Forklift	33002	Taylor	tx-330m	Diesel	Cummins	16 T	2011	117	200 CHE Diesel	4/30/2015	
Forklift	33003	Taylor	tx-330m	Diesel	Cummins	16 T	2011	117	200 CHE Diesel	5/6/2015	
Forklift	33004	Taylor	tx-330m	Diesel	Cummins	16 T	2011	117	200 CHE Diesel	5/8/2015	
Forklift	33005	Taylor	tx-330m	Diesel	Cummins	16 T	2011	117	200 CHE Diesel	5/19/2015	
Forklift	33006	Taylor	tx-330m	Diesel	Cummins	16 T	2012	117	200 CHE Diesel		
Forklift	33007	Taylor	tx-330m	Diesel	Cummins	16 T	2012	117	200 CHE Diesel		
Forklift	33008	Taylor	tx-330m	Diesel	Cummins	16 T	2012	117	200 CHE Diesel		
Forklift	33009	Taylor	tx-330m	Diesel	Cummins	16 T	2012	117	200 CHE Diesel		
Forklift	33010	Taylor	tx-330m	Diesel	Cummins	16 T	2012	117	200 CHE Diesel		
Forklift	33011	Taylor	tx-330m	Diesel	Cummins	16 T	2012	117	200 CHE Diesel		
Forklift	33012	Taylor	tx-330m	Diesel	Cummins	16 T	2012	117	200 CHE Diesel		
Forklift	33013	Taylor	tx-330m	Diesel	Cummins	16 T	2012	117	200 CHE Diesel		
Forklift	35200	Taylor	TXH350L	Diesel	Cummins	QSB6.7	2015		659 CHE Diesel		
Forklift	35202	Taylor	TX300M	Diesel	Cummins		2014		2307 CHE Diesel		
Forklift	35203	Taylor	XL360L	Diesel	Cummins	QSB6.7	2018	173	723 CHE Diesel		
Forklift	35204	Taylor	XL360L	Diesel	Cummins	QSB6.7	2018	173	314 CHE Diesel		
Forklift	36000	Taylor	HX360L	Diesel	Cummins	QSB6.7	2018		943 CHE Diesel		
Forklift	40210	Magna Lift	400B412FS	Diesel	Caterpillar	20 T	2007	176	150 CHE Diesel	1/1/2012	
Forklift	40212	Magna Lift	40PBL12FS	Diesel	Cummins	20 T	2007	117	150 CHE Diesel	1/1/2012	
Forklift	40213	Taylor	TXH400L	Diesel	Cummins	20 T	2008	117	150 CHE Diesel	5/11/2015	
Forklift	40214	Taylor	TXH400L	Diesel	Cummins	20 T	2008	117	150 CHE Diesel	5/15/2015	
Forklift	55200	Taylor	27 T	Diesel		27 T	2017		100 CHE Diesel		
Forklift	55201	Taylor	27 T	Diesel		27 T	2017		100 CHE Diesel		
Forklift	55202	Otek	55SC	Diesel	Caterpillar	28 T	2000	176	150 CHE Diesel	1/1/2014	
Forklift	55203	Otek	55SC	Diesel	Caterpillar	28 T	2001	176	100 CHE Diesel	1/1/2014	
Forklift	55204	Otek	55SC	Diesel	Caterpillar	28 T	2001	176	100 CHE Diesel	1/1/2014	
Forklift	55206	Hoist	P550	Diesel	Cummins	28 T	2007	215	150 CHE Diesel	5/20/2015	
Forklift	55208	Taylor	27 T	Diesel		27 T	2017		100 CHE Diesel		
Forklift	55209	, Taylor	27 T	Diesel		27 T	2017		100 CHE Diesel		
Forklift	72000	Taylor	36 T	Diesel		36 T	2017		100 CHE Diesel		
Forklift	03-088	JLG Skytrak		Diesel	Cummins	QSF3.8	2015	110	57 CHE Diesel		
Forklift	03-089	JLG Skytrak		Diesel	Cummins	QSF3.8	2015	110	214 CHE Diesel		
Forklift	10 W	Hyster	H210D	Diesel		- · -	2017	120	1350 CHE Diesel		
Forklift	11 W	Hyster	H210D	Diesel	Cummins		2015	110	1475 CHE Diesel		
Forklift	12 W	Hyster	H210D	Diesel	Cummins		2013	110	1363 CHE Diesel		



		D	Equip	EngineTy		Engine	EngineY	IID	Annual	0	555	Di G
Port Equip Type Forklift	Equip ID 13 W	Equip Make		pe	Engine Make	Model	ear 2017	HP		Category CHE Diesel	DPF level 3	Blue Cat
Forklift	15 W 14 W	Hyster	H155FT H155XL2	Diesel Diesel	Cummins		2017	75		CHE Diesel		
Forklift	14 W	Hyster Hyster	H210HD	Diesel	Cummins		2015	75 75		CHE Diesel		
Forklift	15 W	Hyster	H155XL2	Diesel	Cummins		2015	75 75		CHE Diesel		
Forklift	28609R	•	XH350L	Diesel	Cummins	35000 lbs	2015	160		CHE Diesel		
Forklift	29381R	Taylor	ЛПЭЭUL	Diesel	Cummins	32000 lbs	2015	173		CHE Diesel		
Forklift	29381R 29382R	Taylor	X360M	Diesel	Cullillins	32000 lbs	2015	173		CHE Diesel		
Forklift	29362R 29795R	Taylor Taylor	X360M	Diesel	Cummins	32000 lbs	2015	173		CHE Diesel		
Forklift	29793N 4 W	•	H210D	Diesel	Cummins	32000 103	2013	110		CHE Diesel		
Forklift	4 vv 5 W	Hyster		Diesel			2013	110		CHE Diesel		
Forklift	5 W	Hyster	H210D H190D		Cummins Cummins		2013			CHE Diesel	1/1/2014	
Forklift	7 W	Hyster		Diesel	Cummins		2008	120 120		CHE Diesel	1/1/2014	
Forklift	7 vv 70FP1	Hyster	H210D	Diesel		7.5 T	1995	120		CHE Diesel		
Forklift	70FF1	Hyster	XL2 H210D	Diesel Diesel	Hyster Cummins	7.5 1	2017	120		CHE Diesel		
Forklift	9 W	Hyster	H 210D	Diesel	Perkins		2017	125		CHE Diesel		
Forklift	F007E019	Hyster	H210HD	Diesel	Cummins	QSB6.7-155	2017	155		CHE Diesel	1/1/2014	
Forklift		•								CHE Diesel	• •	
Forklift	F007E024	•	H210HD H210HD	Diesel	Perkins Perkins	1106C-E60TA 1106C-E60TA		155 155		CHE Diesel	1/1/2014 1/1/2014	
Forklift	F007E024 F007E024	•	H210HD	Diesel Diesel	Perkins	1106C-E60TA		155		CHE Diesel	1/1/2014	
Forklift	F007E024	•	H210HD		Perkins	1106C-E60TA		155		CHE Diesel	1/1/2014	
Forklift	F007E024	•	H210HD	Diesel Diesel	Perkins	1106C-E60TA		155		CHE Diesel	1/1/2013	
Forklift	F118.11	Catepillar	П210ПD	Diesel	Mitsubishi	DP50K-2	2003	64		CHE Diesel	1/1/2014	
Forklift	F118.11 F158-10	Hyster		Diesel	Kubota	DP30K-2	2008	73		CHE Diesel	1/1/2013	
Forklift	F158-10 F159-10	•		Diesel	Kubota		2018	73		CHE Diesel		
Forklift	F159-10 F160-10	Hyster Hyster		Diesel	Kubota		2018	73		CHE Diesel		
Forklift	F161-10	Hyster		Diesel	Kubota		2018	73		CHE Diesel		
Forklift	F161-10 F162.36	•		Diesel	Cummins	QSB6.7	2018	173		CHE Diesel		
Forklift	F162.36	Taylor Taylor		Diesel	Cummins	QSB6.7	2018	173		CHE Diesel		
Forklift	F164-11	Clark		Diesel	Duetz	TD3.6L4	2018	74		CHE Diesel		
Forklift	F165-11			Diesel	Duetz	TD3.6L4	2018	74		CHE Diesel		
Forklift	FL 03-310		H360-48HD		Cummins	QSB6.7	2018	164		CHE Diesel		
Forklift	FL 03-310	•	H360-48HD		Cummins	QSB6.7 QSB6.7	2015	164		CHE Diesel		
Forklift	FL 03-311	•	H360-48HD		Cummins	QSB6.7 QSB6.7	2015	164		CHE Diesel		
Forklift	FL 03-312	•	H360-48HD		Cummins	QSB6.7 QSB6.7	2015	164		CHE Diesel		
Forklift	FL 03-313 FL4500	TIYSTEI	4,500 lbs	Diesel	Cultillilis	Q3B0.7	1996	50		CHE Diesel		
Forklift	FL550	Taylor	4,500 lbs X550M	Diesel	leuzu	55000 lbs	2015	100		CHE Diesel		
Forklift	FLBL	Hyster	VOOUNI	Diesel	lsuzu	22000 102	1995	60		CHE Diesel		
Forklift	L-1	Linde	H80D	Diesel			2008	125		CHE Diesel	1/1/2017	
							2008	125			1/1/2017	
Forklift	L-2	Linde	H80D	Diesel			2008	125	3/5	CHE Diesel	1/1/201/	



D	E . IT	E	Equip	EngineTy	E	Engine	EngineY		Annual	Const	DDD1 12	DI C
Port Equip Type	Equip ID	Equip Make		pe	Engine Make	Model	ear			Cutegory	DPF level 3	Blue Cat
Forklift	L-3	Linde	H80D	Diesel	Taylota	A.C. duive no oto	2008	125		CHE Diesel	12/1/2015	
Forklift	#11	Toyota	7FBEU15	Electric	Toyota	AC drive moto				CHE Electric		
Forklift	#12	Toyota	75051120	Electric	Taylor-Dunn	DC Drive Mot				CHE Electric		
Forklift	#13	Toyota	7FBEU20	Electric	Toyota	AC drive moto				CHE Electric		
Forklift	#30	Toyota	7FBEU15	Electric	Toyota	AC drive moto				CHE Electric		
Forklift	#33	Raymond		Electric	Raymond	AC drive moto	2012			CHE Electric		
Forklift	FL-090	Hyster	N40ZRS2	Electric						CHE Electric		
Forklift	FL-091	Hyster	N40ZRS2	Electric						CHE Electric		
Forklift	FL100			Electric			2006			CHE Electric		
Forklift	6000	Mitshubishi		Gasoline	Nissan	6,000 lb	2013	59		CHE Gasoline		
Forklift	6001	Mitshubishi		Gasoline	Nissan	6,000 lb	2013	59		CHE Gasoline		
Forklift	6002	Mitsubishi	K25	Gasoline		6,000 lb	2013			CHE Gasoline		
Forklift	6003	Mitsubishi	K25	Gasoline		6,000 lb	2013		404	CHE Gasoline		
Forklift	6004	Mitsubishi	K25	Gasoline		6,000 lb	2013		291	CHE Gasoline		
Forklift	6005	Mitsubishi	K25	Gasoline		6,000 lb	2013		522	CHE Gasoline		
Forklift	7001	Mitshubishi	K25	Gasoline	Nissan	6,000 lb	2013	59	945	CHE Gasoline		
Forklift	7002	Mitshubishi	K25	Gasoline	Nissan	6,000 lb	2013	59	541	CHE Gasoline		
Forklift	7003	Mitshubishi	K25	Gasoline	Nissan	7000 lb	2013	59	744	CHE Gasoline		
Forklift	7004	Mitshubishi	K25	Gasoline	Nissan	7000 lb	2013	59	266	CHE Gasoline		
Forklift	7005	Mitsubishi	K25	Gasoline		6,000 lb	2013		533	CHE Gasoline		
Forklift	7006	Mitsubishi	K25	Gasoline		7,000 lb	2013		243	CHE Gasoline		
Forklift	7008	Mitsubishi	K25	Gasoline		7,000 lb	2013		721	CHE Gasoline		
Forklift	7009	Mitsubishi	K25	Gasoline		7,000 lb			630	CHE Gasoline		
Forklift	7010	Mitsubishi	K25	Gasoline		7,000 lb	2013		479	CHE Gasoline		
Forklift	8000	Mitsubishi	FG40N	Gasoline			2016		1202	CHE Gasoline		
Forklift	8020	Mitsubishi	FG40N	Gasoline		8,000 lb	2012		6	CHE Gasoline		
Forklift	8033	Mitsubishi	H80XM	Gasoline			2002		1035	CHE Gasoline		
Forklift	8210	Mitsubishi	FG40N	Gasoline	Nissan	8,000 lb	2012	59	261	CHE Gasoline		
Forklift	L5	Mitsubishi	FG40N	Gasoline	Mitsubishi	TB45	2011	72	378	CHE Gasoline		
Forklift	L6	Mitsubishi	FG40N	Gasoline	Mitsubishi	TB45	2011	72		CHE Gasoline		
Forklift	L7	Mitsubishi	FG35N	Gasoline	Mitsubishi	TB45	2016	72		CHE Gasoline		
Forklift	L8	Mitsubishi	FG35N	Gasoline	Mitsubishi	TB45	2016	72		CHE Gasoline		
Forklift	L9	Mitsubishi	FG35N	Gasoline	Mitsubishi	TB45	2016	72		CHE Gasoline		
Forklift	75	Hyster	H60FT	LPG	Mazda	2.2		46		CHE Propane		
Forklift	76	Hyster	H60FT	LPG	Mazda	2.2		46		CHE Propane		
Forklift	78	Hyster	H60FT	LPG	Mazda	2.2		46		CHE Propane		
Forklift	79	Hyster	H60FT	LPG	Mazda	2.2		46		CHE Propane		
Forklift	80	Hyster	H60FT	LPG	Mazda	2.2		46		CHE Propane		
Forklift	541	Toyota	42-4FGC25		1410200	2.2	1985	62		CHE Propane		



Forklift	Port Equip Type	Equip ID	Equip Make	Equip Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	НР	Annual Hours	Category	DPF level 3	Blue Cat
Forklift	Forklift				•	0							
Forklift 1007	Forklift						5000 lbs				•		
Forklift 1007	Forklift										•		
Forklift 1801 Vale GIP100 LPG Vortec ST 2005 117 380 CHE Propane	Forklift	1007	Hyster	H100XM	LPG	Vortec	5 T	2002	117		•		
Forklift	Forklift	1008	Hyster	H100XM	LPG	Vortec	5 T	2002	117	783	CHE Propane		
Forklift	Forklift	1801	Yale	GLP100	LPG	Vortec	5 T	2005	117	380	CHE Propane		
Forklift	Forklift	1802	Yale	GLP100	LPG	Vortec	5 T	2005	117	492	CHE Propane		
Forklift SOS2	Forklift	5050	Clark	C25L	LPG	GM	DPSIB2.7GLP	2013	96	2181	CHE Propane		
Forklift	Forklift	5051	Clark	C25L	LPG	GM	DPSIB2.7GLP	2013	96	1954	CHE Propane		
Forklift 5054 Clark C25L LPG GM DPSIB2.7GLP 2014 96 1620 CHE Propane Forklift 5055 Clark C25L LPG GM DPSIB2.7GLP 2014 96 1380 CHE Propane Forklift 5056 Clark C25L LPG GM DPSIB2.7GLP 2014 96 1380 CHE Propane Forklift 5056 Clark C25L LPG GM DPSIB2.7GLP 2014 96 1380 CHE Propane Forklift 6016 Caterpillar GP30K LPG 6,000 lb 2000 62 240 CHE Propane Forklift 6017 Caterpillar GP30K LPG 6,000 lb 2000 62 298 CHE Propane Forklift 6017 Caterpillar Fd35K LPG Nissan K21 2004 62 245 CHE Propane Forklift 10117 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10118 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10119 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10120 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10121 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10121 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10122 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10122 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10123 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10123 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10124 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10125 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10126 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10126 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10126 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10126 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10126 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10126 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10126 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10126 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10126 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propane Forklift 10126 Mitsubishi Fd45K1 LPG Nissan S1 2006 117 50 CHE Propan	Forklift	5052	Clark	C25L	LPG	GM	DPSIB2.7GLP	2013	96	2020	CHE Propane		
Forklift S055 Clark C25L LPG GM DPSIB2.7GLP 2014 96 1380 CHE Propane Forklift S056 Clark C25L LPG GM DPSIB2.7GLP 2014 96 1320 CHE Propane Forklift 6016 Caterpillar GP30K LPG 6,000 lb 2000 62 240 CHE Propane Forklift 6017 Caterpillar GP30K LPG 6,000 lb 2000 62 245 CHE Propane Forklift 6016 Caterpillar GP30K LPG Nissan ST 2004 62 245 CHE Propane Forklift 10117 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane Forklift 10118 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FOrklift 10119 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FOrklift 10120 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FOrklift 10121 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FOrklift 10122 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FOrklift 10122 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FOrklift 10123 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FOrklift 10124 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FORKlift 10124 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FORKlift 10125 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FORKlift 10126 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FORKlift 10126 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FORKlift 10126 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FORKlift 10126 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FORKlift 10126 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FORKlift 10126 Mitsubishi FG45K1 LPG Nissan ST 2006 117 50 CHE Propane FORKlift 10126 Mitsubishi FG45K1 LPG Nissan	Forklift	5053	Clark	C25L	LPG	GM	DPSIB2.7GLP	2014	96	2087	CHE Propane		
Forklift	Forklift	5054	Clark	C25L	LPG	GM	DPSIB2.7GLP	2014	96	1620	CHE Propane		
Forklift 6016 Caterpillar GP30K LPG 6,000 lb 2000 62 240 CHE Propane Forklift 6017 Caterpillar GP30K LPG 6,000 lb 2000 62 298 CHE Propane Forklift 6036 Caterpillar GP30K LPG Nissan K21 2004 62 245 CHE Propane Forklift 10117 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10118 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10119 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10120 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10121 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10122 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10122 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10123 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10123 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10125 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FOrklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FORKlift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FORKlift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane FORKlift 10126 Mitsubishi FG45K1 LPG Toyota 4Y ECS 2013 57 387 CHE Propane FORKlift 10126 Mitsubish	Forklift	5055	Clark	C25L	LPG	GM	DPSIB2.7GLP	2014	96	1380	CHE Propane		
Forklift 6017 Caterpillar 6930k LPG 6,000 lb 2000 62 298 CHE Propane Forklift 6036 Caterpillar P6000 LPG Nissan K21 2004 62 245 CHE Propane Forklift 10117 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10118 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10120 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10120 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10121 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10122 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10122 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10123 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10124 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10125 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10126 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10126 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10126 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10126 Mitsubishi F645K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10126 Mitsubishi F045K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10126 Mitsubishi F045K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10126 Mitsubishi F045K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10126 Mitsubishi F045K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10126 Mitsubishi F045K1 LPG Nissan 5 T 2006 117 50 CHE Propane F076Klift 10126 Mitsubishi F045K1 LPG T0yota 4Y ECS 2013 57 376 CHE Propane F076Kl	Forklift	5056	Clark	C25L	LPG	GM	DPSIB2.7GLP	2014	96	1920	CHE Propane		
Forklift 6036 Caterpillar P6000 LPG Nissan K21 2004 62 245 CHE Propane	Forklift	6016	Caterpillar	GP30K	LPG		6,000 lb	2000	62	240	CHE Propane		
Forklift 10117 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane	Forklift	6017	Caterpillar	GP30K	LPG		6,000 lb	2000	62	298	CHE Propane		
Forklift 10118 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10119 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10120 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10121 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10123 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10123 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10124 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10125 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 <td>Forklift</td> <td>6036</td> <td>Caterpillar</td> <td>P6000</td> <td>LPG</td> <td>Nissan</td> <td>K21</td> <td>2004</td> <td>62</td> <td>245</td> <td>CHE Propane</td> <td></td> <td></td>	Forklift	6036	Caterpillar	P6000	LPG	Nissan	K21	2004	62	245	CHE Propane		
Forklift 10119 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10120 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10121 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10122 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10123 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10124 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10125 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10125 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift #27 Toyota 42-6FGCU1£ LPG Nissan 5 T 2006 117 50 CHE Propane Forklift #34 Toyota 8FGU30 LPG Toyota Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #35 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #36 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 387 CHE Propane Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 202 CHE Propane Forklift #37 Toyota 42-6FGCU1£ LPG Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU1£ LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #9 Toyota 42-6FGCU1£ LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift 2005f Caterpillar PG55N1 LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift 28782R Clark C25L LPG Toyota Toyota 4Y ECS 2015 70 1336 CHE Propane Forklift 28782R Clark C25L LPG S000 lbs 2015 70 1158 CHE Propane Forklift 28784R Clark C25L LPG S000 lbs 2015 70 1158 CHE Propane Forklift 28784R Clark C25L LPG S000 lbs 2015 70 1158 CHE Propane	Forklift	10117	Mitsubishi	FG45K1	LPG	Nissan	5 T	2006	117	50	CHE Propane		
Forklift 10120 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10121 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10122 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10123 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10124 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10125 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10125 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift #27 Toyota 42-6FGCU1₺ LPG Nissan 5 T 2006 117 50 CHE Propane Forklift #34 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #35 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #36 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 202 CHE Propane Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 202 CHE Propane Forklift #37 Toyota 42-6FGCU1₺ LPG Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU1₺ LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU1₺ LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU1₺ LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU1₺ LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift 28782R Clark C25L LPG FOYOta FOYOTA 4Y 1995 57 4 CHE Propane Forklift 28784R Clark C25L LPG FOYOTA 5000 lbs 2015 70 1336 CHE Propane Forklift 28784R Clark C25L LPG FOYOTA 5000 lbs 2015 70 1158 CHE Propane Forklift 28784R Clark C25L LPG FOYOTA 5000 lbs 2015 70 1158 CHE Propane	Forklift	10118	Mitsubishi	FG45K1	LPG	Nissan	5 T	2006	117	50	CHE Propane		
Forklift 10121 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10122 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10123 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10124 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10125 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift #27 Toyota 42-6FGCU1£ LPG Nissan 5 T 2006 117 50 CHE Propane Forklift #34 Toyota 8FGU30 LPG Toyota Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #35 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #36 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 387 CHE Propane Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 202 CHE Propane Forklift #37 Toyota 42-6FGCU1£ LPG Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU1£ LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU1£ LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU1£ LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU1£ LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift 28782R Clark C25L LPG Toyota Toyota 4Y ECS 2017 141 253 CHE Propane Forklift 28782R Clark C25L LPG 5000 lbs 2015 70 1336 CHE Propane Forklift 28784R Clark C25L LPG 5000 lbs 2015 70 1356 CHE Propane Forklift 28784R Clark C25L LPG 5000 lbs 2015 70 1356 CHE Propane	Forklift	10119	Mitsubishi	FG45K1	LPG	Nissan	5 T	2006	117	50	CHE Propane		
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Forklift 10125 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift #27 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #34 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #35 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 387 CHE Propane Forklift #36 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 387 CHE Propane Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 202 CHE Propane Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU18 LPG Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 4 CHE Propane Forklift #9 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 30 CHE Propane Forklift 2005f Caterpillar PG55N1 LPG GCT 12000 lbs 2017 141 253 CHE Propane Forklift 28782R Clark C25L LPG 5000 lbs 2015 70 1336 CHE Propane Forklift 28784R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane Forklift 28784R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2015 70 1212 CHE Propane	Forklift	10123	Mitsubishi	FG45K1	LPG	Nissan		2006	117	50	CHE Propane		
Forklift 10126 Mitsubishi FG45K1 LPG Nissan 5 T 2006 117 50 CHE Propane Forklift #27 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 46 CHE Propane Forklift #34 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #35 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 387 CHE Propane Forklift #36 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 202 CHE Propane Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #9 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 4 CHE Propane Forklift 2005f Caterpillar PG55N1 LPG GCT 12000 lbs 2017 141 253 CHE Propane Forklift 28782R Clark C25L LPG 5000 lbs 2015 70 1336 CHE Propane Forklift 28784R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2015 70 1212 CHE Propane	Forklift	10124	Mitsubishi	FG45K1	LPG	Nissan	5 T	2006	117	50	CHE Propane		
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Forklift #34 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 376 CHE Propane Forklift #35 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 387 CHE Propane Forklift #36 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 202 CHE Propane Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 4 CHE Propane Forklift #9 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 30 CHE Propane Forklift 2005f Caterpillar PG55N1 LPG GCT 12000 lbs 2017 141 253 CHE Propane Forklift 28784R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane <	Forklift	10126	Mitsubishi	FG45K1	LPG	Nissan	5 T	2006	117	50	CHE Propane		
Forklift #35 Toyota 8FGU30 LPG Toyota 4Y ECS 2013 57 387 CHE Propane Forklift #36 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 202 CHE Propane Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 4 CHE Propane Forklift #9 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 30 CHE Propane Forklift 2005f Caterpillar PG55N1 LPG GCT 12000 lbs 2017 141 253 CHE Propane Forklift 28782R Clark C25L LPG 5000 lbs 2015 70 1336 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane	Forklift		Toyota			Toyota	•				•		
Forklift #36 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 202 CHE Propane Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 4 CHE Propane Forklift #9 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 30 CHE Propane Forklift 2005f Caterpillar PG55N1 LPG GCT 12000 lbs 2017 141 253 CHE Propane Forklift 28782R Clark C25L LPG 5000 lbs 2015 70 1336 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2013 70 1212 <td>Forklift</td> <td>#34</td> <td>Toyota</td> <td>8FGU30</td> <td></td> <td>Toyota</td> <td>4Y ECS</td> <td>2013</td> <td>57</td> <td>376</td> <td>CHE Propane</td> <td></td> <td></td>	Forklift	#34	Toyota	8FGU30		Toyota	4Y ECS	2013	57	376	CHE Propane		
Forklift #37 Toyota 8FGU30 LPG Toyota 4Y ECS 2014 57 192 CHE Propane Forklift #8 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 4 CHE Propane Forklift #9 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 30 CHE Propane Forklift 2005f Caterpillar PG55N1 LPG GCT 12000 lbs 2017 141 253 CHE Propane Forklift 28782R Clark C25L LPG 5000 lbs 2015 70 1336 CHE Propane Forklift 28784R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2013 70 1212 CHE Propane	Forklift	#35	Toyota	8FGU30	LPG	Toyota	4Y ECS	2013	57	387	CHE Propane		
Forklift #8 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 4 CHE Propane Forklift #9 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 30 CHE Propane Forklift 2005f Caterpillar PG55N1 LPG GCT 12000 lbs 2017 141 253 CHE Propane Forklift 28782R Clark C25L LPG 5000 lbs 2015 70 1336 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2013 70 1212 CHE Propane	Forklift	#36	Toyota		LPG	Toyota	4Y ECS	2014	57	202	CHE Propane		
Forklift #9 Toyota 42-6FGCU18 LPG Toyota Toyota 4Y 1995 57 30 CHE Propane Forklift 2005f Caterpillar PG55N1 LPG GCT 12000 lbs 2017 141 253 CHE Propane Forklift 28782R Clark C25L LPG 5000 lbs 2015 70 1336 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2013 70 1212 CHE Propane	Forklift	#37	Toyota			Toyota	4Y ECS	2014	57	192	CHE Propane		
Forklift 2005f Caterpillar PG55N1 LPG GCT 12000 lbs 2017 141 253 CHE Propane Forklift 28782R Clark C25L LPG 5000 lbs 2015 70 1336 CHE Propane Forklift 28784R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2013 70 1212 CHE Propane	Forklift		Toyota			Toyota	Toyota 4Y		57		•		
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Forklift 28784R Clark C25L LPG 5000 lbs 2015 70 1158 CHE Propane Forklift 29252R Clark C25L LPG 5000 lbs 2013 70 1212 CHE Propane	Forklift	2005f	Caterpillar	PG55N1	LPG	GCT		2017	141	253	CHE Propane		
Forklift 29252R Clark C25L LPG 5000 lbs 2013 70 1212 CHE Propane	Forklift	28782R	Clark	C25L	LPG		5000 lbs	2015	70	1336	CHE Propane		
·	Forklift	28784R	Clark	C25L	LPG		5000 lbs	2015	70	1158	CHE Propane		
Forklift 29783R Clark C25L LPG 5000 lbs 2015 70 1212 CHE Propane	Forklift	29252R	Clark	C25L	LPG		5000 lbs	2013	70	1212	CHE Propane		
	Forklift	29783R	Clark	C25L	LPG		5000 lbs	2015	70	1212	CHE Propane		



Port Equip Type	Equip ID	Equip Make	Equip Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	HP	Annual Hours	Category	DPF level 3	Blue Cat
Forklift	5049F	Clark	C25L	LPG	GM	DPSIB2.7GLP	2013	96		CHE Propane		
Forklift	F006V022		H155XL	LPG	Perkins	1004-4	2012	103		CHE Propane		
Forklift	F111.4	•		LPG				84	162	CHE Propane		
Forklift	F129.5			LPG		QSB 6.7	2013	74	101	CHE Propane		
Forklift	F130.5			LPG		QSB 6.7	2013	74	91	CHE Propane		
Forklift	F131.5			LPG		QSB 6.7	2013	74	176	CHE Propane		
Forklift	F132.5			LPG		QSB 6.7	2013	74	174	CHE Propane		
Forklift	F133.5			LPG		QSB 6.7	2013	74	128	CHE Propane		
Forklift	FL-071	Mitsubishi	FG30K	LPG	Mitsubishi	4G64	2000		212	CHE Propane		
Forklift	FL-077	Hyster	Fortis 80	LPG	Kubota	WG3800	2014	46	381	CHE Propane		
Forklift	FL-082	Hyster	H60FT	LPG	Kubota	WG3800	2015	46	99	CHE Propane		
Forklift	FL-083	Hyster	H60FT	LPG	Kubota	WG3800	2015	46	182	CHE Propane		
Forklift	FL-084	Hyster	H60FT	LPG	Kubota	WG3800	2015	46	140	CHE Propane		
Forklift	FL-085	Hyster	H60FT	LPG	Kubota	WG3800	2015	46	141	CHE Propane		
Forklift	FL-086	Hyster	H60FT	LPG	Kubota	WG3800	2015	46	159	CHE Propane		
Forklift	FL-087	Hyster	H60FT	LPG	Kubota	WG3800	2015	46	126	CHE Propane		
Forklift	FL-092	Hyster	H80FT	LPG	Kubota	WG3800	2015	98	270	CHE Propane		
Forklift	FL-093	Hyster	H80FT	LPG	Kubota	WG3800	2015	98	327	CHE Propane		
Forklift	FL-094	Hyster	H80FT	LPG	Kubota	WG3800	2015	98	1793	CHE Propane		
Forklift	FLBD100A	Hyster	S155XL	LPG		11.5 T	2000	100	200	CHE Propane		
Forklift	FLBD100B	Hyster	S155XL	LPG		11.5 T	2000	100	200	CHE Propane		
Forklift	FLBD100C	Komatsu		LPG			2004	50	1500	CHE Propane		
Forklift	FLBL20			LPG			1995	120	624	CHE Propane		
Forklift	FLBL50A	Hyster	H35xm	LPG	Case	5 T	1995	45	52	CHE Propane		
Forklift	FLBL50B	Toyota	7Fgu25	LPG	Toyota	5 T	2004	50	52	CHE Propane		
Forklift	H80XM	Hyster	H80XM	LPG	GM	6 cyl	2004	94	120	CHE Propane		
Forklift	LGB17	Hyster	S80XM	LPG		7.5T	2002	80	500	CHE Propane		
Forklift	LGB18	Hyster	S80XM	LPG		7.5T	2002	80	500	CHE Propane		
Forklift	LGB19	Hyster	S80XM	LPG		7.5T	2002	80	500	CHE Propane		
Forklift	LGB20	Hyster	S80XM	LPG		7.5T	2002	80	500	CHE Propane		
Forklift	LGB21	Hyster	S80XM	LPG		7.5T	2002	80	500	CHE Propane		
Forklift	LGB22	Hyster	S120XM	LPG		5 T	2002	50	1500	CHE Propane		
Forklift	LGB23	Hyster	S120XM	LPG		5 T	2002	50	1500	CHE Propane		
Forklift	LGB24	Hyster	S120XM	LPG		5 T	2002	50	1500	CHE Propane		
Forklift	LGB25	Hyster	S120XM	LPG		5 T	2002	50	1500	CHE Propane		
Forklift	LGB26	Hyster	S120XM	LPG		5 T	2002	50	1500	CHE Propane		
Forklift	LGB27	Hyster	S120XM	LPG		5 T	2002	50	1500	CHE Propane		
Forklift	LGB28	Hyster	S120XM	LPG		5 T	2002	50	1500	CHE Propane		
Forklift	own455a	Toyota	8FGU30	LPG	Toyota	4Y	2018	57	700	CHE Propane		



Findliff				Equip	EngineTy		Engine	EngineY		Annual		
Forklift			Equip Make	Model	pe	Engine Make					DPF level 3	Blue Cat
Forklift			•	8FGU30		Toyota				•		
Forklift			Toyota							0 CHE Propane		2008
Forklift			Toyota							15 CHE Propane		
Forklift	Forklift	SSAD11	Toyota		LPG		3 T	1987	122	0 CHE Propane		2008
Forklift SAD15	Forklift	SSAD12	Clark	CGP25	LPG		3 T	1993	122	290 CHE Propane		2008
Forklift	Forklift	SSAD13	Clark	CGP25	LPG		3 T	1995	122	240 CHE Propane		
Forklift	Forklift	SSAD15	Clark	CGP25	LPG		3 T	1995	122	100 CHE Propane		
Forklift	Forklift	SSAD17	Clark	CGP25	LPG		3 T	1995	122	100 CHE Propane		
Forklift SSAD20 Toyota 15.000 LPG 3 T 1987 122 0 CHE Propane Forklift SSAD24 Toyota 15.0000 LPG 3 T 2008 390 CHE Propane Forklift SSAD26 Toyota 15,0000 LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD2 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Pro	Forklift	SSAD18	Toyota		LPG		3 T	1987	122	0 CHE Propane		2008
Forklift SSAD23 Toyota 15.00# LPG 3 T 2008 150 CHE Propane Forklift SSAD24 Toyota 15.00# LPG 3 T 2008 390 CHE Propane Forklift SSAD26 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD6 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 140 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 MITPACCO KTA 19 Diesel Caterpillar C7.1 2016 250	Forklift	SSAD19	Toyota		LPG		3 T	1987	122	0 CHE Propane		2008
Forklift SSAD26 Toyota 15,000# LPG 3 T 2008 390 CHE Propane 2008 Forklift SSAD26 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD6 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 MIT-Paccec KTA 19 Diesel Caterpillar C7.1 2016 250 1111 CHE Diese Hybrid RTG TT28 MIT-Paccec KTA 19 Diesel Caterpillar C7.1 2016 250 1111 CHE Diesel Hybrid RTG TT31 MIT-Paccec KTA 19 Diesel Caterpillar C7.1 2016 250 1532 CHE Diesel Hybrid RTG TT34	Forklift	SSAD20	Toyota		LPG		3 T	1987	122	0 CHE Propane		
Forklift SSAD26 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD6 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD9 Toyota LPG 5 T 1987 122 140 CHE Propane 2008 Hybrid RTG IT39 MIT-Pacces KTA 19 Diesel Caterpillar C7.1 2016 250 1520 CHE Diesel Hybrid RTG TT31 MIT-Pacces KTA 19 Diesel Caterpillar C7.1 2016 250 1530 CHE Diesel Hybrid RTG TT33 MIT-Pacces KTA 19 Diesel Caterpillar C7.1 2016 250 1535 CHE Diesel Hybrid RTG TT33 MIT	Forklift	SSAD23	Toyota	15.000#	LPG		3 T	2008		150 CHE Propane		
Forklift SSAD4 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD6 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD9 Toyota LPG 5 T 1987 122 140 CHE Propane 2008 Hybrid RTG TT28 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1262 CHE Diesel Hybrid RTG TT30 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1520 CHE Diesel Hybrid RTG TT31 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1535 CHE Diesel Hybrid RTG TT33 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1535 CHE Diesel Hybrid RTG </td <td>Forklift</td> <td>SSAD24</td> <td>Toyota</td> <td>15,000#</td> <td>LPG</td> <td></td> <td>3 T</td> <td>2008</td> <td></td> <td>390 CHE Propane</td> <td></td> <td></td>	Forklift	SSAD24	Toyota	15,000#	LPG		3 T	2008		390 CHE Propane		
Forklift SSAD6 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD8 Toyota LPG 5 T 1987 122 0 CHE Propane 2008 Forklift SSAD9 Toyota LPG 5 T 1987 122 140 CHE Propane 2008 Hybrid RTG TT28 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1520 CHE Diesel Hybrid RTG TT30 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1520 CHE Diesel Hybrid RTG TT31 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1536 CHE Diesel Hybrid RTG TT33 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1535 CHE Diesel Hybrid RTG TT33 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel	Forklift	SSAD26	Toyota		LPG		5 T	1987	122	0 CHE Propane		2008
Forklift SSAD8 Toyota LPG 5 T 1987 122 10 CHE Propane 2008 Hybrid RTG T128 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1262 CHE Diesel Hybrid RTG T129 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1111 CHE Diesel Hybrid RTG T130 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1520 CHE Diesel Hybrid RTG T131 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1520 CHE Diesel Hybrid RTG T131 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1536 CHE Diesel Hybrid RTG T133 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG T134 MIT-Paceco KTA 19 Diesel Caterpillar C7.1	Forklift	SSAD4	Toyota		LPG		5 T	1987	122	0 CHE Propane		2008
Forklift SSAD9 Toyota LPG 5 T 1987 122 140 CHE Propane 2008 Hybrid RTG TT28 MIT-Pacco KTA 19 Diesel Caterpillar C7.1 2016 250 1262 CHE Diesel Hybrid RTG TT30 MIT-Pacco KTA 19 Diesel Caterpillar C7.1 2016 250 1150 CHE Diesel Hybrid RTG TT31 MIT-Pacco KTA 19 Diesel Caterpillar C7.1 2016 250 1520 CHE Diesel Hybrid RTG TT33 MIT-Pacco KTA 19 Diesel Caterpillar C7.1 2016 250 1536 CHE Diesel Hybrid RTG TT33 MIT-Pacco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT33 MIT-Pacco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT35 MIT-Pacco KTA 19 Diesel Caterpillar C7.1	Forklift	SSAD6	Toyota		LPG		5 T	1987	122	0 CHE Propane		2008
Hybrid RTG	Forklift	SSAD8	Toyota		LPG		5 T	1987	122	0 CHE Propane		2008
Hybrid RTG TT29 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1111 CHE Diesel Hybrid RTG TT30 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1520 CHE Diesel Hybrid RTG TT31 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1356 CHE Diesel Hybrid RTG TT32 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1563 CHE Diesel Hybrid RTG TT33 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1563 CHE Diesel Hybrid RTG TT34 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT35 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT35 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT41 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT41 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT42 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1580 CHE Diesel Hybrid RTG TT44 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1386 CHE Diesel Hybrid RTG TT44 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1386 CHE Diesel Hybrid RTG TT45 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1386 CHE Diesel Hybrid RTG TT46 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1386 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1505 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1505 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1505 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1505 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1505	Forklift	SSAD9	Toyota		LPG		5 T	1987	122	140 CHE Propane		2008
Hybrid RTG TT30 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1520 CHE Diesel Hybrid RTG TT31 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1356 CHE Diesel Hybrid RTG TT32 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1553 CHE Diesel Hybrid RTG TT33 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT34 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT35 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT41 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT44 Paceco-Mits Diesel Caterpillar C7.1	Hybrid RTG	TT28	MIT-Paceco	KTA 19	Diesel	Caterpillar	C7.1	2016	250	1262 CHE Diesel		
Hybrid RTG	Hybrid RTG	TT29	MIT-Paceco	KTA 19	Diesel	Caterpillar	C7.1	2016	250	1111 CHE Diesel		
Hybrid RTG TT32 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1563 CHE Diesel Hybrid RTG TT33 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1315 CHE Diesel Hybrid RTG TT34 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT35 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT41 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT44 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1580 CHE Diesel Hybrid RTG TT44 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1580 CHE Diesel Hybrid RTG TT45 Paceco-Mits Diesel Caterpillar C7.1 2016 250	Hybrid RTG	TT30	MIT-Paceco	KTA 19	Diesel	Caterpillar	C7.1	2016	250	1520 CHE Diesel		
Hybrid RTG TT33 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1315 CHE Diesel Hybrid RTG TT34 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT35 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT41 Paceco-Mits* Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT42 Paceco-Mits* Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT43 Paceco-Mits* Diesel Caterpillar C7.1 2016 250 1580 CHE Diesel Hybrid RTG TT44 Paceco-Mits* Diesel Caterpillar C7.1 2016 250 1550 CHE Diesel Hybrid RTG TT45 Paceco-Mits* Diesel Caterpillar C7.1 2016 250 1550 CHE	Hybrid RTG	TT31	MIT-Paceco	KTA 19	Diesel	Caterpillar	C7.1	2016	250	1356 CHE Diesel		
Hybrid RTG TT34 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1534 CHE Diesel Hybrid RTG TT35 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT41 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1700 CHE Diesel Hybrid RTG TT42 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT43 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1580 CHE Diesel Hybrid RTG TT44 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1346 CHE Diesel Hybrid RTG TT45 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7	Hybrid RTG	TT32	MIT-Paceco	KTA 19	Diesel	Caterpillar	C7.1	2016	250	1563 CHE Diesel		
Hybrid RTG TT35 MIT-Paceco KTA 19 Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT41 Paceco-Mits	Hybrid RTG	TT33	MIT-Paceco	KTA 19	Diesel	Caterpillar	C7.1	2016	250	1315 CHE Diesel		
Hybrid RTG	Hybrid RTG	TT34	MIT-Paceco	KTA 19	Diesel	Caterpillar	C7.1	2016	250	1534 CHE Diesel		
Hybrid RTG TT42 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1483 CHE Diesel Hybrid RTG TT43 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1580 CHE Diesel Hybrid RTG TT44 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1346 CHE Diesel Hybrid RTG TT45 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1453 CHE Diesel Hybrid RTG TT46 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1453 CHE Diesel Hybrid RTG TT46 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Loader 10059 Kubota R520S Diesel Caterpillar C7.1 2016 250 1525 CHE Diesel Loader P10LD Caterpillar P80M Diesel Caterpillar C13 2015 418 872 CHE Diesel Loader #10LD Caterpillar P80M Diesel Caterpillar C13 2015 418 1698 CHE Diesel Loader #11LD Caterpillar P80M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #14LD Caterpillar P80M Diesel Caterpillar C13 2015 418 1896 CHE Diesel	Hybrid RTG	TT35	MIT-Paceco	KTA 19	Diesel	Caterpillar	C7.1	2016	250	1483 CHE Diesel		
Hybrid RTG TT43 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1580 CHE Diesel Hybrid RTG TT44 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1346 CHE Diesel Hybrid RTG TT45 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1453 CHE Diesel Hybrid RTG TT46 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1525 CHE Diesel Loader 10059 Kubota R520S Diesel Caterpillar C7.1 2003 50 1500 CHE Diesel Loader #10LD Caterpillar 980M Diesel Caterpillar C13 2015 418 872 CHE Diesel Loader #11LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1698 CHE Diesel Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel	Hybrid RTG	TT41	Paceco-Mits	il.	Diesel	Caterpillar	C7.1	2016	250	1700 CHE Diesel		
Hybrid RTG TT44 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1346 CHE Diesel Hybrid RTG TT45 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1453 CHE Diesel Hybrid RTG TT46 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1453 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1525 CHE Diesel Loader 10059 Kubota R520S Diesel Caterpillar C7.1 2016 250 1525 CHE Diesel Loader Caterpillar 980M Diesel Caterpillar C13 2015 418 872 CHE Diesel Loader #10LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1698 CHE Diesel Loader #11LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel	Hybrid RTG	TT42	Paceco-Mits	ı	Diesel	Caterpillar	C7.1	2016	250	1483 CHE Diesel		
Hybrid RTG TT45 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1453 CHE Diesel Hybrid RTG TT46 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Loader 10059 Kubota R520S Diesel Caterpillar C7.1 2016 250 1525 CHE Diesel Loader Caterpillar 980M Diesel Caterpillar C13 2015 418 872 CHE Diesel Loader #10LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1698 CHE Diesel Loader #11LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel	Hybrid RTG	TT43	Paceco-Mits	il.	Diesel	Caterpillar	C7.1	2016	250	1580 CHE Diesel		
Hybrid RTG TT46 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1504 CHE Diesel Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1525 CHE Diesel Loader 10059 Kubota R520S Diesel Caterpillar C13 2015 418 872 CHE Diesel Loader #10LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1698 CHE Diesel Loader #11LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #11LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel	Hybrid RTG	TT44	Paceco-Mits	ı	Diesel	Caterpillar	C7.1	2016	250	1346 CHE Diesel		
Hybrid RTG TT47 Paceco-Mits Diesel Caterpillar C7.1 2016 250 1525 CHE Diesel Loader 10059 Kubota R520S Diesel Caterpillar C13 2015 418 872 CHE Diesel Loader #10LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1698 CHE Diesel Loader #11LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2017 420 1697 CHE Diesel	Hybrid RTG	TT45	Paceco-Mits	ı	Diesel	Caterpillar	C7.1	2016	250	1453 CHE Diesel		
Loader 10059 Kubota R520S Diesel 2003 50 1500 CHE Diesel 2004 50 Loader Caterpillar 980M Diesel Caterpillar C13 2015 418 872 CHE Diesel 2015 418 1698 CHE Diesel 2015 418 1698 CHE Diesel 2015 418 1896 CHE Diesel 2016 418 418 418 418 418 418 418 418 418 418	Hybrid RTG	TT46	Paceco-Mits	ı	Diesel	Caterpillar	C7.1	2016	250	1504 CHE Diesel		
Loader 10059 Kubota R520S Diesel 2003 50 1500 CHE Diesel 2004 50 Loader Caterpillar 980M Diesel Caterpillar C13 2015 418 872 CHE Diesel 2015 418 1698 CHE Diesel 2015 418 1698 CHE Diesel 2015 418 1896 CHE Diesel 2016 418 418 418 418 418 418 418 418 418 418	Hybrid RTG	TT47	Paceco-Mits	l.	Diesel	Caterpillar	C7.1	2016	250	1525 CHE Diesel		
Loader Caterpillar 980M Diesel Caterpillar C13 2015 418 872 CHE Diesel Loader #10LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1698 CHE Diesel Loader #11LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2017 420 1697 CHE Diesel		10059	Kubota	R520S	Diesel	·		2003	50	1500 CHE Diesel		
Loader #10LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1698 CHE Diesel Loader #11LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2017 420 1697 CHE Diesel						Caterpillar	C13					
Loader #11LD Caterpillar 980M Diesel Caterpillar C13 2015 418 1896 CHE Diesel Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2017 420 1697 CHE Diesel		#10LD	•									
Loader #14LD Caterpillar 980M Diesel Caterpillar C13 2017 420 1697 CHE Diesel			•			•						
·			•									
	Loader	#8LD	Caterpillar	980K	Diesel	Caterpillar	C13	2012	402	993 CHE Diesel		



Port Equip Type	Equip ID	Equip Make	Equip Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	HP	Annual Hours	Category	DPF level 3	Blue Cat
Loader	#9LD	Caterpillar	980M	Diesel	Caterpillar	C13	2015	418		CHE Diesel	DIT ICVCI 3	Diac Gat
Loader	70L1	Catepillar	950B	Diesel	Caterpillar	-	1985	200		CHE Diesel		
Loader	K1Y00340	•	982-M	Diesel		C-13	2014			CHE Diesel		
Loader	KRS00297	CAT	980-M	Diesel		C-13	2014			CHE Diesel		
Loader	ownload	Caterpillar	972M	Diesel	Caterpillar		2017	272	1912	CHE Diesel		
Man Lift	1004004	JLG .	600S	Diesel	Perkins	404-22T	2009	62	116	CHE Diesel		
Man Lift	1004011	JLG	1200SJP	Diesel	Deutz	TD2011L04	2008	75	1128	CHE Diesel		
Man Lift	62660003	JLG	600S	Diesel	Deutz	TD2.9L4	2014	67	286	CHE Diesel		
Man Lift	32601TLL	JLG		Diesel			2012		200	CHE Diesel		
Man Lift	ML	Genie	S-85	Diesel			2009			CHE Diesel		
Man Lift	ML001	JLG		Diesel			2006		2	CHE Diesel		
Man Lift	ML002	JLG		Diesel			2013		232	CHE Diesel		
Man Lift	ML10	JLG	1350SJP	Diesel	Deutz	TCD2.9L4	2017	99	761	CHE Diesel		
Man Lift	ML316	JLG		Diesel			2000		43	CHE Diesel		
Man Lift	SC-139			Diesel			2013	62	232	CHE Diesel		
Man Lift	SC-156	JLG		Diesel	Deutz	TCD 3.6L4	2015	100	196	CHE Diesel		
Man Lift	SC-99			Diesel			2013	74	144	CHE Diesel		
Man Lift	#21	JLG	1.93E+05	Electric	JLG	AC drive mot	c 2001		0	CHE Electric		
Man Lift	#22	JLG	1930ES	Electric	JLG	AC drive mot	c 2003		0	CHE Electric		
Man Lift	ML08	Genie	S60	Gasoline	Ford	LRG425-EFI	2000	82	42	CHE Gasoline		
Man Lift	ML09	JLG	600S	Gasoline	Ford	LRG425-EFI	2004	82	100	CHE Gasoline		
Material Handler	108031	Caterpillar	345CMH	Diesel	Caterpillar	C13	2005	371	1603	CHE Diesel	9/15/2011	
Material Handler	110003	Caterpillar	375-L	Diesel	Caterpillar	C15	2008	717	0	CHE Diesel	6/22/2011	
Material Handler	110008	Caterpillar	375L	Electric	Reliance		1995		0	CHE Electric		
Miscellaneous	SC-123	Peco		Diesel	Kubota		2010	13	2119	CHE Diesel		
Miscellaneous	SC-124	Peco		Diesel	Kubota		2010	13	831	CHE Diesel		
Rail pusher	3501011	RailKing	RK 330	Diesel	Cummins	QSB6.7 195	2013	195	328	CHE Diesel		
Rail pusher	SC-138			Diesel			2013	150	879	CHE Diesel		
Rail pusher	SC-140			Diesel			2013	260	584	CHE Diesel		
Rub-trd Gantry Crane	10RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19	1998	615	4033	CHE Diesel	12/27/2013	
Rub-trd Gantry Crane	11RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19	1998	615	2003	CHE Diesel	11/22/2013	
Rub-trd Gantry Crane	14RTG	ZPMC	RC40.6/64	Diesel	CAT	C15	2013	515	3713	CHE Diesel		
Rub-trd Gantry Crane	15RTG	ZPMC	RC40.6/64	Diesel	CAT	C15	2013	515	3100	CHE Diesel		
Rub-trd Gantry Crane	16RTG	Paceco	RT 4023-81-	Diesel	CAT	C15	2013	515	3782	CHE Diesel		
Rub-trd Gantry Crane	17RTG	Paceco	RT 4023-81-	Diesel	CAT	C15	2013	515	3923	CHE Diesel		
Rub-trd Gantry Crane	18RTG	Paceco	RT 4023-81-	Diesel	CAT	C15	2013	515	3614	CHE Diesel		
Rub-trd Gantry Crane	1RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19	1998	615	2786	CHE Diesel	2/26/2014	
Rub-trd Gantry Crane	20RTG	Paceco	RT 4023-81-	- Diesel	CAT	C15	2013	515	3558	CHE Diesel		
•												



			Equip	EngineTy		Engine]	EngineY		Annual			
Port Equip Type	Equip ID	Equip Make	Model	pe	Engine Make	Model	•	ear	HP	Hours (Category	DPF level 3	Blue Cat
Rub-trd Gantry Crane	22RTG	Paceco	RT 4023-81	- Diesel	CAT	C15		2013	515	3128 (CHE Diesel		
Rub-trd Gantry Crane	23RTG	Paceco	RT 4023-81	- Diesel	CAT	C15		2013	515	3556 (CHE Diesel		
Rub-trd Gantry Crane	24RTG	Paceco	RT 4023-81	- Diesel	CAT	C15		2013	515	2831 (CHE Diesel		
Rub-trd Gantry Crane	25RTG	Paceco	RT 4023-81	- Diesel	CAT	C15		2013	515	3627 (CHE Diesel		
Rub-trd Gantry Crane	26RTG	Paceco	RT 4023-81	Diesel	CAT	C15		2013	515	2792 (CHE Diesel		
Rub-trd Gantry Crane	27RTG	Paceco	RT 4023-81	Diesel	CAT	C15		2013	515	4025 (CHE Diesel		
Rub-trd Gantry Crane	2RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19		1999	615	3467 (CHE Diesel	1/31/2014	
Rub-trd Gantry Crane	3RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19		1999	615	2686 (CHE Diesel	6/24/2013	
Rub-trd Gantry Crane	4RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19		1999	615	1980 (CHE Diesel	1/31/2014	
Rub-trd Gantry Crane	5RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19		1999	615	2116 (CHE Diesel	1/31/2014	
Rub-trd Gantry Crane	6RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19		1998	615	1508 (CHE Diesel	11/4/2013	
Rub-trd Gantry Crane	7RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19		1998	615	2237 (CHE Diesel	11/1/2013	
Rub-trd Gantry Crane	8RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19		1998	615	1320 (CHE Diesel	10/21/2013	
Rub-trd Gantry Crane	9RTG	ZPMC	RC40.6/64	Diesel	Cummins	KTA19		1998	615	4 (CHE Diesel	1/27/2014	
Rub-trd Gantry Crane	ZT06	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2003	946	1045 (CHE Diesel		
Rub-trd Gantry Crane	ZT07	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2003	946	1168 (CHE Diesel		
Rub-trd Gantry Crane	ZT08	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2004	1043	1285 (CHE Diesel		
Rub-trd Gantry Crane	ZT09	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2004	1043	1226 (CHE Diesel		
Rub-trd Gantry Crane	ZT10	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2004	1043	1377 (CHE Diesel		
Rub-trd Gantry Crane	ZT11	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2004	1043	1800 (CHE Diesel	4/26/2013	
Rub-trd Gantry Crane	ZT12	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2004	1043	2293 (CHE Diesel	12/15/2014	
Rub-trd Gantry Crane	ZT13	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2004	1043	2322 (CHE Diesel	3/29/2013	
Rub-trd Gantry Crane	ZT14	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2004	1043	781 (CHE Diesel	3/20/2013	
Rub-trd Gantry Crane	ZT15	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2004	1043	2157 (CHE Diesel	3/26/2013	
Rub-trd Gantry Crane	ZT19			Diesel				2002		1211 (CHE Diesel	4/26/2013	
Rub-trd Gantry Crane	ZT34	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2005	1043	2863 (CHE Diesel	3/15/2013	
Rub-trd Gantry Crane	ZT35	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2005	1043	(CHE Diesel	2/15/2013	
Rub-trd Gantry Crane	ZT36	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2005	1043	1354 (CHE Diesel	4/24/2013	
Rub-trd Gantry Crane	ZT37	ZPMC	RC50.8/66	Diesel	Caterpillar	3	3412	2005	1043	1227 (CHE Diesel	4/22/2013	
Side pick	15253	Taylor	TECSP157-8	Diesel	Cummins	B5.9C		2000	205	18 (CHE Diesel	6/21/2013	
Side pick	15255	Taylor	TECSP157-8	Diesel	Cummins	QSB5.9		2003	205	21 (CHE Diesel	6/6/2013	
Side pick	15256	Taylor	TECSP157-8	Diesel	Cummins	QSB5.9		2005	205	5 (CHE Diesel	6/6/2013	
Side pick	15257	Taylor		Diesel				2017	205	323 (CHE Diesel		
Side pick	15264	Taylor	TECSP157/8	Diesel	Cummins	B5.9C		2002	205	938 (CHE Diesel	3/2/2013	
Side pick					Cummins	QSBB5.90	<u></u>	2006	205	1715 (CHE Diesel	5/2/2013	
	15265	Taylor	TECSP157/8	Diesel	Cummins	QJDDJ.JC	_	_000	203	±, ±0 (JIL DICSCI	3/2/2013	
Side pick		Taylor Taylor	TECSP157/8 TECSP157/8		Cummins	QSBB5.90		2006	205		CHE Diesel	5/2/2013	
Skid Steer Loader	15265	Taylor								894 (
·	15265 15266	Taylor	TECSP157/8	Diesel				2006		894 (CHE Diesel		



Port Equip Type	Equip ID	Equip Make	Equip Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	HP	Annual Hours	Category	Γ	OPF level 3	Blue Cat
STS Crane	G4	qp		Electric	g					CHE Electric			
STS Crane	PT10			Electric					1372	CHE Electric			
STS Crane	PT11			Electric					2439	CHE Electric			
STS Crane	PT12			Electric					2503	CHE Electric			
STS Crane	PT14			Electric					1797	CHE Electric			
STS Crane	PT15			Electric					701	CHE Electric			
STS Crane	PT16			Electric					646	CHE Electric			
STS Crane	PT17			Electric					2230	CHE Electric			
STS Crane	PT18			Electric					2458	CHE Electric			
STS Crane	PT-19			Electric					2278	CHE Electric			
STS Crane	PT-20			Electric					2251	CHE Electric			
STS Crane	PT7			Electric					684	CHE Electric			
STS Crane	PT8			Electric					241	CHE Electric			
STS Crane	PT9			Electric					125	CHE Electric			
STS Crane	STS 001	ZPMC		Electric			2015		506	CHE Electric			
STS Crane	STS 002	ZPMC		Electric			2015		1960	CHE Electric			
STS Crane	STS 003	ZPMC		Electric			2015		2695	CHE Electric			
STS Crane	STS 004	ZPMC		Electric			2015			CHE Electric			
STS Crane	STS 005	ZPMC		Electric			2015			CHE Electric			
STS Crane	STS 006	ZPMC		Electric			2015			CHE Electric			
STS Crane	STS 007	ZPMC		Electric			2015			CHE Electric			
STS Crane	STS 008	ZPMC		Electric			2015			CHE Electric			
STS Crane	STS 009	ZPMC		Electric			2016			CHE Electric			
STS Crane	STS 010	ZPMC		Electric			2016			CHE Electric			
STS Crane	STS 011	ZPMC		Electric			2018		1195	CHE Electric			
STS Crane	STSC20			Electric						CHE Electric			
STS Crane	STSC21			Electric						CHE Electric			
STS Crane	STSC22			Electric						CHE Electric			
STS Crane	STSC23			Electric						CHE Electric			
STS Crane	STSC24			Electric						CHE Electric			
STS Crane	STSC25			Electric						CHE Electric			
STS Crane	STSC26			Electric						CHE Electric			
STS Crane	STSC27			Electric						CHE Electric			
STS Crane	STSC28			Electric						CHE Electric			
STS Crane	STSC29			Electric						CHE Electric			
STS Crane	STSC30			Electric						CHE Electric			
STS Crane	STSC31			Electric						CHE Electric			
STS Crane	STSC33			Electric						CHE Electric			
STS Crane	STSC40			Electric						CHE Electric			



STS Crane STSC41 Electric CHE Electric STS Crane STSC42 Electric CHE Electric STS Crane STSC43 Electric CHE Electric STS Crane STSC44 Electric STS Crane STSC45 Electric CHE Electric STS Crane STSC46 Electric CHE Electric STS Crane STSC46 Electric CHE Electric STS Crane STSC47 Electric CHE Electric STS Crane STSC48 Electric CHE Electric STS Crane STSC48 Electric CHE Electric STS Crane STSC48 Electric CHE Electric STS Crane STSC49 Electric CHE Electric	
STS Crane STSC42 Electric CHE Electric CHE Electric CHE Electric STS Crane STSC43 Electric CHE E	ue Cat
STS Crane STSC44 Electric CHE E	
STS CraneSTSC44ElectricCHE ElectricSTS CraneSTSC45ElectricCHE ElectricSTS CraneSTSC46ElectricCHE ElectricSTS CraneSTSC47ElectricCHE ElectricSTS CraneSTSC48ElectricCHE ElectricSTS CraneSTSC49ElectricCHE Electric	
STS CraneSTSC45ElectricCHE ElectricSTS CraneSTSC46ElectricCHE ElectricSTS CraneSTSC47ElectricCHE ElectricSTS CraneSTSC48ElectricCHE ElectricSTS CraneSTSC49ElectricCHE Electric	
STS CraneSTSC46ElectricCHE ElectricSTS CraneSTSC47ElectricCHE ElectricSTS CraneSTSC48ElectricCHE ElectricSTS CraneSTSC49ElectricCHE Electric	
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STS Crane STSC48 Electric CHE Electric STS Crane STSC49 Electric CHE Electric	
STS Crane STSC49 Electric CHE Electric	
STS Crane STSC50 Electric CHE Electric	
STS Crane STSC51 Electric CHE Electric	
STS Crane STSC52 Electric CHE Electric	
STS Crane STSC53 Electric CHE Electric	
STS Crane STSC54 Electric CHE Electric	
STS Crane STSC55 Electric CHE Electric	
STS Crane STSC56 Electric CHE Electric	
STS Crane STSC57 Electric CHE Electric	
STS Crane STSC80 Electric CHE Electric	
STS Crane STSC81 Electric CHE Electric	
STS Crane STSC82 Electric CHE Electric	
STS Crane STSC83 Electric CHE Electric	
STS Crane STSC84 Electric CHE Electric	
STS Crane STSC85 Electric CHE Electric	
STS Crane STSC86 Electric CHE Electric	
STS Crane STSC87 Electric CHE Electric	
STS Crane STSC88 Electric CHE Electric	
STS Crane STSC89 Electric CHE Electric	
STS Crane STSC90 Electric CHE Electric	
STS Crane STSC91 Electric CHE Electric	
STS Crane STSC92 Electric CHE Electric	
STS Crane STSC93 Electric CHE Electric	
STS Crane STSC94 Electric CHE Electric	
Sweeper 4877 Johnson VS562 Diesel Cummins B6.7 2019 300 40 CHE Diesel	
Sweeper 23007 Tennant Centurion Diesel 2005 180 CHE Diesel	
Sweeper 03-103 Elgin Pelican Diesel John Deere 4045TE270 2006 114 112 CHE Diesel	
Sweeper 23SWP160 Tymco Diesel 603 CHE Diesel	
Sweeper 23SWP160 Peterbuilt Diesel 38 CHE Diesel	
Sweeper 23SWP190 Tymco Diesel 435 CHE Diesel	
Sweeper SC-158 TYMCO Diesel Cummins 2015 200 247 CHE Diesel	



Port Equip Type	Equip ID	Equip Make	Equip Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	HP	Annual Hours Category	DPF level 3	Blue Cat
Sweeper Sweeper	SC-158	TYMCO	MIOUCI	Diesel	John Deere	Model	2015	75	247 CHE Diesel	DI I level 3	Diue Cat
Sweeper	SW106	Elgin	Crosswind	Diesel	John Deere		2019	220	0 CHE Diesel		
Sweeper	SW20new	_	600	Diesel			2018	210	500 CHE Diesel		
Sweeper	SW-21	Schwarze	S3481	Diesel	Isuzu	4HEZXS	2002	190	387 CHE Diesel		
Sweeper	V007	Elgin	Whirlwind	Diesel	Cummins	ISB10	2014	200	1338 CHE Diesel		
Sweeper	#26	Tennant	5700XP	Electric	Tennant	AC drive mo		200	0 CHE Electric		
Sweeper	#25	Tennant	800	LPG	Tennant	Gas/LP Ford			39 CHE Propane		
Sweeper	03-105	Advance		LPG			2015	114	36 CHE Propane		
Sweeper	owned6	Tennant	S30	LPG	GM	1.6L	2013	55	100 CHE Propane		
Sweeper	SC-155			LPG	Kubota		2016	47	36 CHE Propane		
Sweeper	SW#2		6650XP	LPG			2004	125	20 CHE Propane		
Sweeper	SW100	Tennant		LPG			2005	50	200 CHE Propane		
Sweeper	SW18	Edgen		LPG			1982	135	30 CHE Propane		
Top handler	6158	Taylor	THDC-9555	Diesel	Cummins	QSM-11	2002	300	679 CHE Diesel	4/11/2012	
Top handler	6159	Taylor	THDC-9555	Diesel	Cummins	QSM-11	2004	300	0 CHE Diesel	3/29/2012	
Top handler	6163	Taylor	THDC-9555	Diesel	Cummins	QSM-11	2005	300	0 CHE Diesel	4/26/2012	
Top handler	6179	Taylor	THDC-9555	Diesel	Cummins	LT 10-C	2006	250	0 CHE Diesel	4/9/2012	
Top handler	6196	Taylor	TXC976	Diesel			2008		13 CHE Diesel	2/1/2011	
Top handler	6197	Taylor	TXC976	Diesel			2008		188 CHE Diesel	2/1/2011	
Top handler	6198	Taylor	TXC976	Diesel			2008		614 CHE Diesel	2/1/2011	
Top handler	36001	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	1498 CHE Diesel		
Top handler	36002	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	1909 CHE Diesel		
Top handler	36003	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2201 CHE Diesel		
Top handler	36004	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2004 CHE Diesel		
Top handler	36005	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2345 CHE Diesel		
Top handler	36006	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2142 CHE Diesel		
Top handler	36007	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2306 CHE Diesel		
Top handler	36008	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	1575 CHE Diesel		
Top handler	36009	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2074 CHE Diesel		
Top handler	36010	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	1972 CHE Diesel		
Top handler	36011	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2512 CHE Diesel		
Top handler	36012	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2281 CHE Diesel		
Top handler	36013	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2210 CHE Diesel		
Top handler	36014	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	1916 CHE Diesel		
Top handler	36015	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2527 CHE Diesel		
Top handler	36016	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2620 CHE Diesel		
Top handler	36017	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2768 CHE Diesel		
Top handler	36018	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2251 CHE Diesel		
Top handler	36019	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2629 CHE Diesel		



			Equip	EngineTy		Engine	EngineY		Annual				
Port Equip Type	Equip ID	Equip Make	Model	pe	Engine Make		ear	HP	Hours (•	DP	F level 3	Blue Cat
Top handler	36020	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343		CHE Diesel			
Top handler	36021	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343		CHE Diesel			
Top handler	36022	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2333 (CHE Diesel			
Top handler	36023	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2344 (CHE Diesel			
Top handler	36024	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2230 (CHE Diesel			
Top handler	36025	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2565 (CHE Diesel			
Top handler	36026	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2288 (CHE Diesel			
Top handler	36027	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2194 (CHE Diesel			
Top handler	36028	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2229 (CHE Diesel			
Top handler	36029	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2235 (CHE Diesel			
Top handler	36030	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	1744 (CHE Diesel			
Top handler	36031	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2285 (CHE Diesel			
Top handler	36032	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2282 (CHE Diesel			
Top handler	36033	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2783 (CHE Diesel			
Top handler	36034	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2649 (CHE Diesel			
Top handler	36035	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2555 (CHE Diesel			
Top handler	36036	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	1982 (CHE Diesel			
Top handler	36037	Taylor	TXLC976	Diesel	Volvo	TAD-1360VE	2012	343	2210 (CHE Diesel			
Top handler	80202	Taylor		Diesel			2011	330	1950 (CHE Diesel			
Top handler	80206	Taylor	THDC 955	Diesel	Cummins	QSMII-C	2006	335	1520 (CHE Diesel	4/	27/2013	
Top handler	80207	Taylor	THDC 955	Diesel	Cummins	QSMII-C	2006	335	1553 (CHE Diesel	1/	28/2013	
Top handler	80210	Taylor	THDC 955	Diesel	Cummins	QSMII-C	2005	330	1851 (CHE Diesel	4/	27/2013	
Top handler	80211	Taylor	THDC 955	Diesel	Cummins	QSMII-C	2006	335	1566 (CHE Diesel	2/	13/2013	
Top handler	80215	Taylor	THDC 955	Diesel	Cummins	QSMII-C	2005	335	441 (CHE Diesel	12	2/1/2012	
Top handler	80216	Taylor	THDC 955	Diesel	Cummins	QSMII-C	2005	335	1598 (CHE Diesel	4/	27/2013	
Top handler	80224	Taylor	THDC 955	Diesel	Cummins	M11-C	1999	275	1807 (CHE Diesel	7/	29/2013	
Top handler	80225	Taylor	THDC 955	Diesel	Cummins	M11-C	2000	275	1048 (CHE Diesel	7/	29/2013	
Top handler	80226	Taylor	THDC 955	Diesel	Cummins	M11-C	2000	275	1470 (CHE Diesel	7/	30/2013	
Top handler	80227	Taylor	THDC 955	Diesel	Cummins	M11-C	2000	275	2272 (CHE Diesel	7/	30/2013	
Top handler	80228	Taylor	THDC 955	Diesel	Cummins	M11-C	2000	275	2040 (CHE Diesel	7/	30/2013	
Top handler	80229	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2001	275	2040 (CHE Diesel	4/	24/2013	
Top handler	80230	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2001	275	2492 (CHE Diesel	4/	29/2013	
Top handler	80231	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2001	275	1596 (CHE Diesel	4/	25/2013	
Top handler	80234	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2001	275	2092 (CHE Diesel	4/	25/2013	
Top handler	80235	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2002	300	1820 (CHE Diesel	4/	30/2013	
Top handler	80236	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2003	300	2945 (CHE Diesel	4/	29/2013	
Top handler	80237	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2003	300	2012 (CHE Diesel	4/	29/2013	
Top handler	80238	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2003	300	1997 (CHE Diesel	4/	19/2013	
Top handler	80239	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2004	300	1481 (CHE Diesel	4/	27/2013	



Port Equip Type	Equip ID	Equip Make	Equip Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	НР	Annual Hours Ca	itegory	DPF level 3	Blue Cat
Top handler	80240	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2004	300		HE Diesel	4/22/2013	Diue Cat
Top handler	80241	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2004	335		HE Diesel	4/22/2013	
Top handler	80242	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2004	335		HE Diesel	4/27/2013	
Top handler	80242	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2004	335		HE Diesel	4/27/2013	
Top handler	80249	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2007	275		HE Diesel	12/1/2012	
Top handler	80250	Taylor	THDC 955	Diesel	Cummins	QSWIII C	2007	275		HE Diesel	12/1/2012	
Top handler	80252	Taylor	THDC 955	Diesel	Cummins	M11-C	2000	275		HE Diesel	7/31/2013	
Top handler	80257	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2002	300		HE Diesel	4/27/2013	
Top handler	80258	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2002	300		HE Diesel	12/1/2012	
Top handler	80259	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2002	300		HE Diesel	12/1/2012	
Top handler	80260	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2002	300		HE Diesel	4/27/2013	
Top handler	80261	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2002	300		HE Diesel	4/27/2013	
Top handler	80262	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2002	300		HE Diesel	4/27/2013	
Top handler	80265	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2002	300	1387 CF		4/27/2013	
Top handler	80266	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2004	300		HE Diesel	4/27/2013	
Top handler	80281	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285		HE Diesel	4/2//2013	
Top handler	80282	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285		HE Diesel		
Top handler	80283	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285		HE Diesel		
Top handler	80284	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285		HE Diesel		
Top handler	80285	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285		HE Diesel		
Top handler	80286	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285		HE Diesel		
Top handler	80287	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285		HE Diesel		
Top handler	80288	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285		HE Diesel		
Top handler	80289	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285		HE Diesel		
Top handler	80290	Taylor	THDC 955	Diesel	Cummins	QSM11-C	2007	275		HE Diesel	12/1/2012	
Top handler	80291	Taylor		Diesel		•	2011	330		HE Diesel	, ,	
Top handler	80292	Taylor		Diesel			2011	330	2814 CF	HE Diesel		
Top handler	80293	, Taylor		Diesel			2011	330		HE Diesel		
Top handler	80294	, Taylor		Diesel			2011	330		HE Diesel		
Top handler	80295	Taylor		Diesel			2011	330	1961 CH	HE Diesel		
Top handler	80296	Taylor		Diesel			2011	330	2216 CH	HE Diesel		
Top handler	80297	Taylor		Diesel			2011	330	2191 CH	HE Diesel		
Top handler	80298	Taylor		Diesel			2011	330		HE Diesel		
Top handler	80299	Taylor		Diesel			2011	330		HE Diesel		
Top handler	80300	, Taylor		Diesel			2011	330		HE Diesel		
Top handler	80301	Taylor		Diesel			2014		2471 CH	HE Diesel		
Top handler		•		Diesel			2014			HE Diesel		
10p Harraici	80302	Taylor		Diesei								
Top handler	80302 80303	Taylor		Diesel			2014			HE Diesel		



Port Equip Type	Equip ID	Equip Make	Equip Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	HP	Annual Hours	Category	DPF level 3	Blue Cat
Top handler	80305	Equip Make	Model	Diesel	Diigine wake	Wiodei	2015	111		CHE Diesel	DIT ICVCIS	Diuc Cat
Top handler	80306			Diesel			2015			CHE Diesel		
Top handler	80307			Diesel			2015			CHE Diesel		
Top handler	80308	Taylor		Diesel			2011	330		CHE Diesel		
Top handler	80309	, Taylor		Diesel			2011	330		CHE Diesel		
Top handler	80310	,		Diesel			2015			CHE Diesel		
Top handler	80311			Diesel			2015			CHE Diesel		
Top handler	80312	Taylor		Diesel			2011	330		CHE Diesel		
Top handler	80314	Taylor		Diesel			2012	330	1782	CHE Diesel		
Top handler	80315	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285	586	CHE Diesel		
Top handler	80316	Taylor	XLC976	Diesel	Volvo	TAD1371VE	2017	285	796	CHE Diesel		
Top handler	80317			Diesel			2018		3408	CHE Diesel		
Top handler	80318	Taylor		Diesel			2018		1370	CHE Diesel		
Top handler	80319	Taylor		Diesel			2018		1614	CHE Diesel		
Top handler	80320	Taylor		Diesel			2019		250	CHE Diesel		
Top handler	80361			Diesel			2018		3337	CHE Diesel		
Top handler	80362			Diesel			2018		3214	CHE Diesel		
Top handler	80363			Diesel			2019		1426	CHE Diesel		
Top handler	80364			Diesel			2019		1425	CHE Diesel		
Top handler	80365			Diesel			2019		584	CHE Diesel		
Top handler	80366			Diesel			2019		848	CHE Diesel		
Top handler	03-963	Hyster	HY	Diesel	Cummins	QSL9 350	2013	335	0	CHE Diesel		
Top handler	03-964	Hyster	HY	Diesel	Cummins	QSL9 350	2013	335	0	CHE Diesel		
Top handler	03-965	Hyster	HY	Diesel	Cummins	QSL9 350	2013	335	1435	CHE Diesel		
Top handler	03-966	Hyster	HY	Diesel	Cummins	QSL9-350	2013	350	0	CHE Diesel		
Top handler	360L3	Hyster		Diesel	Cummins	QSL9	2015	350	603	CHE Diesel		
Top handler	360L4	Hyster		Diesel	Cummins	QSL9	2015	350	347	CHE Diesel		
Top handler	360L5	Hyster		Diesel	Cummins	QSL9	2015	350	433	CHE Diesel		
Top handler	6TPK1700	C Taylor	XLC 976	Diesel	Volvo	TAD-1371VE	2017	388	2474	CHE Diesel		
Top handler	6TPK1700	•	XLC 976	Diesel	Volvo	TAD-1371VE	2017	388		CHE Diesel		
Top handler	6TPK1700	2 Taylor	XLC 976	Diesel	Volvo	TAD-1371VE	2017	388	3367	CHE Diesel		
Top handler	6TPK1700	•	XLC 976	Diesel	Volvo	TAD-1371VE	2017	388		CHE Diesel		
Top handler	6TPK1700	•	XLC 976	Diesel	Volvo	TAD-1371VE	2017	388	3184	CHE Diesel		
Top handler	6TPK1700	•	XLC 976	Diesel	Volvo	TAD-1371VE	2017	388		CHE Diesel		
Top handler	6TPK1700	•	XLC 976	Diesel	Volvo	TAD-1371VE	2017	388		CHE Diesel		
Top handler	6TPK1700	•	XLC 976	Diesel	Volvo	TAD-1371VE		388		CHE Diesel		
Top handler	6TPK1700	•	XLC 976	Diesel	Volvo	TAD-1371VE	2017	388		CHE Diesel		
Top handler	6TPK1700	•	XLC 976	Diesel	Volvo	TAD-1371VE		388		CHE Diesel		
Top handler	6TPK1800	CTaylor	XLC 976	Diesel	Volvo	TAD-1371VE	2018	388	1681	CHE Diesel		



Port Equip Type	Equip ID Equip Ma	Equip ke Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	HP	Annual Hours Category	DPF level 3	Blue Cat
Top handler	6TPK18001 Taylor	XLC 976	Diesel	Volvo	TAD-1371VE	2018	388	2309 CHE Diesel		
Top handler	6TPK18002 Taylor	XLC 976	Diesel	Volvo	TAD-1371VE	2018	388	1542 CHE Diesel		
Top handler	6TPK18003Taylor	XLC 976	Diesel	Volvo	TAD-1371VE	2018	388	1611 CHE Diesel		
Top handler	F 112.95 Taylor		Diesel	Cummins	QSM11	2007	350	149 CHE Diesel	1/1/2013	
Top handler	F 113.95 Taylor		Diesel	Cummins	QSM11	2007	350	0 CHE Diesel	1/1/2013	
Top handler	F 114.95 Taylor		Diesel	Cummins	QSM11	2007	350	69 CHE Diesel	1/1/2013	
Top handler	F 115.95 Taylor		Diesel	Cummins	QSM11	2007	350	89 CHE Diesel	1/1/2013	
Top handler	F 116.95 Taylor		Diesel	Cummins	QSM11	2007	350	1 CHE Diesel	1/1/2013	
Top handler	F 117.36 Taylor		Diesel	Cummins	QSM11	2010	350	56 CHE Diesel	1/1/2013	
Top handler	F 122.95 Taylor		Diesel	Volvo	TAD 1360VE	2011	343	336 CHE Diesel		
Top handler	F 123.95 Taylor		Diesel	Volvo	TAD 1360VE	2011	343	399 CHE Diesel		
Top handler	F 124.95 Taylor		Diesel	Volvo	TAD 1360VE	2011	343	283 CHE Diesel		
Top handler	F 125.95		Diesel		TAD 1360VE	2013	343	152 CHE Diesel		
Top handler	F 127.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	768 CHE Diesel		
Top handler	F 128.35 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	243 CHE Diesel		
Top handler	F 134.36 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	209 CHE Diesel		
Top handler	F 135.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	1529 CHE Diesel		
Top handler	F 136.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	1652 CHE Diesel		
Top handler	F 137.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	1261 CHE Diesel		
Top handler	F 138.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	1832 CHE Diesel		
Top handler	F 139.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	2142 CHE Diesel		
Top handler	F 140.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	2436 CHE Diesel		
Top handler	F 141.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	2134 CHE Diesel		
Top handler	F 142.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	1314 CHE Diesel		
Top handler	F 143.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	1973 CHE Diesel		
Top handler	F 144.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	1424 CHE Diesel		
Top handler	F 145.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2015	382	2037 CHE Diesel		
Top handler	F 146.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	2315 CHE Diesel		
Top handler	F 147.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	2249 CHE Diesel		
Top handler	F 148.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	1634 CHE Diesel		
Top handler	F 149.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	2278 CHE Diesel		
Top handler	F 150.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	1838 CHE Diesel		
Top handler	F 151.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	2092 CHE Diesel		
Top handler	F 152.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	2635 CHE Diesel		
Top handler	F 153.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	2063 CHE Diesel		
Top handler	F 154.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	750 CHE Diesel		
Top handler	F 155.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	2053 CHE Diesel		
Top handler	F 156.95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	1307 CHE Diesel		
Top handler	F 157-95 Taylor		Diesel	Volvo	TAD1371-75\	/ 2016	382	2261 CHE Diesel		



Post plane				Equip	EngineTy		Engine	EngineY		Annual			
Top handler F16.0.5 F16.	Port Equip Type	Equip ID	Equip Make	Model	pe	Engine Make	Model	ear	HP	Hours	Category	DPF level 3	Blue Cat
Top handler Fi61-95	Top handler	F159.95			Diesel			2019	382	0	CHE Diesel		
Top handler Fi5.295 Used Very New	Top handler	F160.95			Diesel			2019	382	0	CHE Diesel		
Top handler RS-001 Hyster RS-4S-31-V Diesel Cummins QSI-9-300 203 350 125 CHE Diesel 1/1/2014 Top handler TRC20 Kubca Mosta Kubca 200 59 80 CHE Diesel 1/1/2014 Tractor 1370 United Tract-SM-50F IPG Ford CSG6491 1996 101 1220 CHE Propane 3/20/07012 Tractor 1372 United Tract-SM-50F IPG Ford CSG6491 1997 101 1248 CHE Propane 3/23/2012 Tractor 1375 United Tract-SM-50F IPG Ford CSG6491 1996 101 1248 CHE Propane 8/23/2012 Tractor 1375 United Tract-SM-50F IPG Ford CSG6491 1996 101 1248 CHE Propane 8/23/2012 Tractor 13700 Ford Fr80 CSG6491 1996 200 250 CHE Dresel 4/27/2010 Tractor 131500 Freg TR45 Diesel Cummins <td>Top handler</td> <td>F161.95</td> <td></td> <td></td> <td>Diesel</td> <td></td> <td></td> <td>2019</td> <td>382</td> <td>0</td> <td>CHE Diesel</td> <td></td> <td></td>	Top handler	F161.95			Diesel			2019	382	0	CHE Diesel		
Top handler TH,100 TAYLOR 75000b Dissel Valota 40 T 1979 174 60 CHE Dissel 1/1/2014 Tractor 1370 Nulsed Tract; SM-50F LPG Ford CSG6491 1996 101 1220 CHE Propane 3/20/2012 Tractor 1371 United Tract; SM-50F LPG Ford CSG6491 1996 101 1220 CHE Propane 8/23/2012 Tractor 1375 United Tract; SM-50F LPG Ford CSG6491 1996 101 1240 CHE Propane 8/21/2012 Tractor 1375 United Tract; SM-50F LPG Ford CSG6491 1996 101 1240 CHE Propane 8/21/2012 Truck 13700 Onited Tract; SM-50F LPG Ford CSG6491 1996 101 1210 CHE Propane 8/21/2012 Truck 1304008 Freightlinger IS8-7 Diesel Caterpillar 3126 201 30 OCHE Diesel 4/27/2010 Truck 01540 Miternational Workstan	Top handler	F162.95			Diesel			2019	382	0	CHE Diesel		
Tractor TRACO Kubota MSD Diesel Kubota 2403M 2009 59 80 CHE Diesel 4 2007 27 27 27 20 250<	Top handler	RS-001	Hyster	RS 45-31CH	Diesel	Cummins	QSL9-350	2013	350	125	CHE Diesel		
Tractor 1370 United Tracts M-50F LPG Ford CSG6491 1996 101 1220 CHE Propane 3/20/2012 Tractor 1371 United Tract SM-50F LPG Ford CSG6491 1996 101 1220 CHE Propane 8/23/2012 Tractor 1375 United Tract SM-50F LPG Ford CSG6491 1996 101 1248 CHE Propane 8/23/2012 Truck 1376 United Tract SM-50F LPG Ford CSG6491 1996 101 1248 CHE Propane 8/21/2012 Truck 13600 Ford F-750 Diesel Caterpillar 3120 200 250 CHE On Road Diesel Truck 131500 Terex TR45 Diesel Cummins QSK19 209 525 252 CHE Diesel CHE On Road Diesel Truck 131500 Terex TR45 Diesel Cummins QSK19 209 525 252 CHE Diesel CHE Diesel Truck 131500 Terestitiller Combo <t< td=""><td>Top handler</td><td>TH1000</td><td>TAYLOR</td><td>75000#</td><td>Diesel</td><td></td><td>40 T</td><td>1979</td><td>174</td><td>60</td><td>CHE Diesel</td><td>1/1/2014</td><td></td></t<>	Top handler	TH1000	TAYLOR	75000#	Diesel		40 T	1979	174	60	CHE Diesel	1/1/2014	
Tractor 1372 United Tractis SM-50F LPG Ford SG6491 1996 101 1220 CHE Propane 8/23/2012 Tractor 1375 United Tractis M-50F LPG Ford CSG6491 1996 101 1248 CHE Propane 8/21/2012 Tractor 1376 United Tractis M-50F LPG Ford CSG6491 1996 101 1124 CHE Propane 8/21/2012 Truck 1376 United Tractis M-50F LPG Ford CSG6491 1996 101 110 CHE Propane 4/27/2012 Truck 130008 Freightlinger IS67 Diesel Cummins M2106 2011 300 300 CHE On Road Diesel Truck 131003 Terex TR45 Diesel Cummins M2109 252 292 CHE Diesel 1272 CHE Diesel Truck 017AM International Frantis Diesel Cummins QSK19 2016 132 CHE Diesel 1272 CHE Diesel Truck 027AM International Freightliner Cmbo Diesel	Tractor	TRC20	Kubota	M59	Diesel	Kubota	2403M	2009	59	80	CHE Diesel		
Tractor 1375 United TractSM-S0-F LPG Ford CSG6491 1997 101 47 CHE Propane 7/13/2012 Tractor 1375 United TractSM-S0F LPG Ford CSG6491 1996 101 1248 CHE Propane 8/21/2012 Tractor 1376 United TractSM-S0F LPG Ford CSG6491 1996 101 1210 CHE Propane 8/21/2012 Truck 130408 Ford F-750 Diesel Caterillar 3126 200 250 250 CHE On Road Diesel Truck 1315003 Terex TR45 Diesel Cummins OSK19 2009 255 1292 CHE Diesel Truck 017AN International Transtar Diesel Cummins OSK19 2009 255 123 CHE Diesel Truck 027AN International Transtar Diesel Ford 6.7 2016 7.9 133 CHE Diesel Truck O3TAN International Transtar Diesel Ford 6.7 2016 <td< td=""><td>Tractor</td><td>1370</td><td>United Tract</td><td>:(SM-50F</td><td>LPG</td><td>Ford</td><td>CSG6491</td><td>1996</td><td>101</td><td>1220</td><td>CHE Propane</td><td></td><td>3/20/2012</td></td<>	Tractor	1370	United Tract	:(SM-50F	LPG	Ford	CSG6491	1996	101	1220	CHE Propane		3/20/2012
Tractor 1376 United Tracts H-G Ford CSG6491 1996 101 1248 CHE Propane 8/21/2012 Tractor 1376 United Tracts <h-sof< td=""> IPG Ford CSG6491 1996 101 110 CHE Propane 4/27/2010 Truck 1304008 Freightlinger IS8-7 Diesel Cummins M206 201 300 300 CHE On Road Diesel CHE ON ROAD DIESE Truck 1315003 Terex TR45 Diesel Cummins QSK19 209 525 292 CHE Diesel LED Diesel Truck 017AN International Workstar Diesel Cummins QSK19 209 525 1127 CHE Diesel CHE Diesel Truck 017AN International Workstar Diesel Cummins QSK19 201 1706 CHE Diesel 1706 CHE Diesel Truck 027AN International Workstar Diesel Ford 6.7 2016 270 313 CHE Diesel 1721/2014 Truck SC152 MCCellan FSO</h-sof<>	Tractor	1371	United Tract	SM-50F	LPG	Ford	CSG6491	1996	101	1220	CHE Propane		8/23/2012
Tractor 1376 United Truck 1376 United Truck 1506 Ford CSG6491 1996 101 1110 CHE Propane 4/27/2010 Truck 22880 Ford F-750 Diesel Caterpillar 3126 2001 200 200 200 200 CDCHE On Road Diesel Truck 1315002 Terex TR45 Diesel Cummins QSK19 209 525 292 CHE Diesel Truck 1315003 Terex TR45 Diesel Cummins QSK19 209 525 122 CHE Diesel Truck 017AN International Transtar Diesel Cummins QSK19 201 52 1207 CHE Diesel Truck 027AN International Transtar Diesel Ford 6.7 2016 270 1338 CHE Diesel Truck 55151000T Freightliner Combo Diesel Ford 6.7 2016 270 1338 CHE Diesel 1/21/2014 Truck SC-616 Ford PS5	Tractor	1372	United Tract	SM-50-F	LPG			1997	101	47	CHE Propane		7/13/2010
Truck 22680 Ford F-750 Diesel Catepillar 3126 200 210 250 CHE On Road Diesel Fragithiler FS6.7 Diesel Cummins M2106 2011 300 300 CHE On Road Diesel CHE ON Road Diesel <td>Tractor</td> <td>1375</td> <td>United Tract</td> <td>SM-50F</td> <td>LPG</td> <td>Ford</td> <td>CSG6491</td> <td>1996</td> <td>101</td> <td>1248</td> <td>CHE Propane</td> <td></td> <td>8/21/2012</td>	Tractor	1375	United Tract	SM-50F	LPG	Ford	CSG6491	1996	101	1248	CHE Propane		8/21/2012
Truck 1304008 Freightlinger ISB6.7 Diesel Diesel Cummins QSK19 2011 200 525 202 CHE Diesel	Tractor	1376	United Tract	: SM-50F	LPG	Ford	CSG6491	1996	101	1110	CHE Propane		4/27/2010
Truck 1315002 Terex TR45 Diesel Cummins QSK19 2009 525 292 CHE Diesel Truck 1315003 Terex TR45 Diesel Cummins QSK19 2009 525 1127 CHE Diesel Freightlesel	Truck	22680	Ford	F-750	Diesel	Caterpillar	3126	2006	210	250	CHE On Road Diesel		
Truck 1315003 Terex TR45 Diesel Cummins QSK19 259 127 CHE Diesel Truck 02TAM International Transtar Diesel Lesel Lesel 1007 CHE Diesel Lesel Diesel Truck 03TAM International Transtar Diesel Lesel 1706 CHE Diesel 1706 CHE Diesel Truck 5515100°* Freightliner Combo Diesel Ford 2016 270 1314 CHE Diesel Truck SC162 McClellar Diesel Ford 2016 270 1338 CHE Diesel Truck SC-162 McClellar Diesel Ford 2016 270 1334 CHE Diesel Truck SC-60 McClellar Diesel Cummins L9 2016 270 1338 CHE Diesel Truck SC-60 McClellar Diesel Cummins L9 2016 270 1348 CHE Diesel Truck SC-68 Steftine Diesel Cummins L9 2018 148 CHE Diesel <t< td=""><td>Truck</td><td>1304008</td><td>Freightlinge</td><td>r ISB6.7</td><td>Diesel</td><td>Cummins</td><td>M2106</td><td>2011</td><td>300</td><td>300</td><td>CHE On Road Diesel</td><td></td><td></td></t<>	Truck	1304008	Freightlinge	r ISB6.7	Diesel	Cummins	M2106	2011	300	300	CHE On Road Diesel		
Truck 01TAN Internationa Transtar Diesel Secondary	Truck	1315002	Terex	TR45	Diesel	Cummins	QSK19	2009	525	292	CHE Diesel		
Truck 02TAN International Vorkstar Diesel International Vorkstar Diesel International Vorkstar Diesel International Vorkstar International Vorkstar Diesel International Vorkstar International Vorkstar Diesel Ford 6.7 2016 314 CHE Diesel International CHE Diesel International CHE Diesel International CHE Diesel 314 CHE Diesel International CHE Diesel International CHE Diesel International CHE Diesel 314 CHE Diesel International CHE Diesel International CHE Diesel International CHE Diesel 314 CHE Diesel International CHE Diesel International CHE Diesel International CHE Diesel 314 CHE Diesel International CHE Diesel International CHE Diesel International CHE Diesel International CHE Diesel 314 CHE Diesel International CHE	Truck	1315003	Terex	TR45	Diesel	Cummins	QSK19	2009	525	1127	CHE Diesel		
Truck 03TAN International Workstar Diesel Image: Combo Diesel Image: Combo Diesel Image: Combo Diesel Image: Combo 1706 CHE Diesel 314 CHE Diesel Image: Combo 1706 CHE Diesel Image: Combo 1706 CHE Diesel 314 CHE Diesel Image: Combo 1706 CHE Diesel Image: Combo 2016 State 314 CHE Diesel 48 CHE Diesel 48 CHE Diesel 48 CHE Diesel 48 CHE Diesel 1721/2014 48 CHE Diesel 9/7/2013 48 CHE Diesel 47 CHE DIESEL	Truck	01TAN	Internationa	Transtar	Diesel					53	CHE Diesel		
Truck 55151000⊤Feightliner Combo Diesel Ford 6.7 2016 270 1338 CHE Diesel Truck SC-162 McClellan Diesel Cummins L9 2018 177 48 CHE On Road Diesel 1/21/2014 Truck SC-60 Ford Diesel Lectric 1998 200 732 CHE On Road Diesel 9/7/2013 Truck SC-85 Stefline Diesel Tollor-Dunn DC Drive Mot 2008 729 CHE On Road Diesel 1/21/2014 Truck #16 Taylor-Dunn B0-210-36 Electric Taylor-Dunn DC Drive Mot 2008 Lectric CHE Electric Truck #16 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Mot 2009 62 CHE Electric Truck #17 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Mot 2009 62 CHE Electric	Truck	02TAN	Internationa	Transtar	Diesel					1007	CHE Diesel		
Truck NWT Ford F750 Diesel Ford 6.7 2016 270 1338 CHE Diesel Truck SC-162 McClellan Diesel Cummins L9 2018 177 48 CHE On Road Diesel 1/21/2014 Truck SC-60 Ford Diesel	Truck	03TAN	Internationa	Workstar	Diesel					1706	CHE Diesel		
Truck SC-162 McClellan Diesel Cummins L9 2018 177 48 CHE On Road Diesel 1/21/2014 Truck SC-60 Ford Diesel	Truck	55151000	T Freightliner	Combo	Diesel			2016		314	CHE Diesel		
Truck SC-60 Ford Diesel 1998 230 73 CHE On Road Diesel 9/7/2013 Truck SC-85 Sterline Diesel 2006 300 729 CHE On Road Diesel 1/21/2014 Truck #14 Taylor-Dunn BO-210-36 Electric Taylor-Dunn DC Drive Moti 2008 148 CHE Electric CHE Electric Truck #15 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2008 CHE Electric CHE Electric Truck #16 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2008 85 CHE Electric Truck #17 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2009 562 CHE Electric Truck #18 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2009 151 CHE Electric Truck #20T Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2009 151 CHE Electric Yard tractor 707 Kalmar Diesel Cummins ISB6.7 200 2012 <td>Truck</td> <td>NWT</td> <td>Ford</td> <td>F750</td> <td>Diesel</td> <td>Ford</td> <td>6.7</td> <td>2016</td> <td>270</td> <td>1338</td> <td>CHE Diesel</td> <td></td> <td></td>	Truck	NWT	Ford	F750	Diesel	Ford	6.7	2016	270	1338	CHE Diesel		
Truck	Truck	SC-162	McClellan		Diesel	Cummins	L9	2018	177	48	CHE On Road Diesel	1/21/2014	
Truck#14Taylor-Dunn B0-210-36ElectricTaylor-Dunn B0-210-36DC Drive Mot200885 CHE ElectricTruck#18Taylor-Dunn MX-016-00ElectricTaylor-Dunn B0-210-36DC Drive Mot2009151 CHE ElectricTruck#18Taylor-Dunn MX-016-00ElectricTaylor-Dunn B0-210-36DC Drive Mot2016126 CHE ElectricTruck#207Taylor-Dunn B0-440-48ElectricTaylor-Dunn B0-210-36DC Drive Mot2016126 CHE ElectricYard tractor707KalmarDieselCumminsISB6.7 2002012004338 CHE On Road DieselYard tractor5046CapacityTJ9000DieselCumminsISB 6.720082402272 CHE On Road DieselYard tractor5048CapacityTJ9000DieselCumminsISB 6.720082402387 CHE On Road DieselYard tractor5049CapacityTJ9000DieselCumminsISB 6.720082402071 CHE On Road DieselYard tractor5301C	Truck	SC-60	Ford		Diesel			1998	230	73	CHE On Road Diesel	9/7/2013	
Truck #15 Taylor-Dunn B0-210-36 Electric Taylor-Dunn DC Drive Mote 2008 CHE Electric Truck #16 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Mote 2008 85 CHE Electric Truck #17 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Mote 2009 62 CHE Electric Truck #18 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Mote 2009 151 CHE Electric Truck #18 Taylor-Dunn B5-440-48 Electric Taylor-Dunn DC Drive Mote 2009 151 CHE Electric Truck #20T Taylor-Dunn B5-440-48 Electric Taylor-Dunn DC Drive Mote 2016 126 CHE Electric Yard tractor 707 Kalmar Diesel Cummins ISB6.7 200 2012 200 4338 CHE On Road Diesel Yard tractor 827 Ottawa T2 Diesel Cummins ISB 6.7 2008 240 2272 CHE On Road Diesel Yard tractor 5046 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2387 CHE On Road Diesel Yard tractor 5048 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2387 CHE On Road Diesel Yard tractor 5049 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2071 CHE On Road Diesel Yard tractor 5049 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2071 CHE On Road Diesel Yard tractor 5301 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2071 CHE On Road Diesel Yard tractor 5301 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2128 CHE On Road Diesel Yard tractor 5301 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2128 CHE On Road Diesel	Truck	SC-85	Sterline		Diesel			2006	300	729	CHE On Road Diesel	1/21/2014	
Truck #16 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2008 85 CHE Electric Truck #17 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2009 62 CHE Electric Truck #18 Taylor-Dunn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2009 151 CHE Electric Truck #20T Taylor-Dunn B5-440-48 Electric Taylor-Dunn DC Drive Moti 2009 151 CHE Electric Truck #20T Taylor-Dunn B5-440-48 Electric Taylor-Dunn DC Drive Moti 2016 126 CHE Electric Truck #20T Taylor-Dunn B5-440-48 Electric Taylor-Dunn DC Drive Moti 2016 126 CHE Electric Truck #20T Taylor-Dunn B5-440-48 Electric Taylor-Dunn DC Drive Moti 2016 126 CHE Electric Truck #20T Taylor-Dunn B5-440-48 Electric Taylor-Dunn DC Drive Moti 2016 126 CHE Electric Truck #20T Toylor-Dunn B5-440-48 Electric Taylor-Dunn DC Drive Moti 2016 126 CHE Electric Truck #20T Toylor Drive Moti 2016 126 CHE Electric Truck #20T Toylor Drive Moti 2016 126 CHE Electric Truck #20T Toylor Drive Moti 2016 126 CHE Electric Truck #20T Toylor Drive Moti 2016 126 CHE Electric Truck #20T Toylor Pounn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2009 151 CHE Electric Truck #20T Toylor Pounn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2009 152 CHE Diesel Pisch CHE Electric Truck #20T Toylor Pounn MX-016-00 Electric Taylor-Dunn DC Drive Moti 2009 152 CHE Diesel Pisch CHE Electric Truck #20T CHE Electric 120 CHE Electric	Truck	#14	Taylor-Dunn	B0-210-36	Electric	Taylor-Dunn	DC Drive Mot	tı 2008		148	CHE Electric		
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	Yard tractor	5802	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2674 CHE On Road Diese		
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	Yard tractor	5805	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1930 CHE On Road Diese		



Vard tractor 5806 Capacity T19000 Diesel Cummins 158 6.7 2008 240 1588 CHE On Road Diesel Cammins 158 6.7 2008 240 249 2	Port Equip Type	Equip ID	Fauin Malza	Equip Model	EngineTy	Engine Malza	Engine Model	EngineY ear	HP	Annual Hours Category	DPF level 3	Blue Cat
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Yard tractor 5860 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1497 CHE On Road Diesel Yard tractor 5861 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2341 CHE On Road Diesel Yard tractor 5862 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2275 CHE On Road Diesel Yard tractor 5863 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2256 CHE On Road Diesel Yard tractor 5864 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Yard tractor 5866 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Yard tractor 5868 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2431 CHE On	Yard tractor	5858	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1991 CHE On Road Diesel		
Yard tractor 5861 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2341 CHE On Road Diesel Cummins ISB 6.7 2008 240 2275 CHE On Road Diesel Cummins ISB 6.7 2008 240 2275 CHE On Road Diesel Cummins ISB 6.7 2008 240 2256 CHE On Road Diesel Cummins ISB 6.7 2008 240 2256 CHE On Road Diesel Cummins ISB 6.7 2008 240 2256 CHE On Road Diesel Cummins ISB 6.7 2008 240 2320 CHE On Road Diesel Cummins ISB 6.7 2008 240 2320 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Cummins ISB 6.7 2008 240 2401 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Road Diesel Cummins ISB 6.7 2008 240 2324 CHE On Roa	Yard tractor	5859	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2102 CHE On Road Diesel		
Yard tractor 5862 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2275 CHE On Road Diesel Yard tractor 5863 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2256 CHE On Road Diesel Yard tractor 5864 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2320 CHE On Road Diesel Yard tractor 5866 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Yard tractor 5867 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 939 CHE On Road Diesel Yard tractor 5868 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Yard tractor 5870 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2384 CHE On	Yard tractor	5860	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1497 CHE On Road Diesel		
Yard tractor 5863 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2256 CHE On Road Diesel Cummins ISB 6.7 2008 240 2320 CHE On Road Diesel Cummins ISB 6.7 2008 240 2320 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Cummins ISB 6.7 2008 240 2401 2431 CHE On Road Diesel Cummins ISB 6.7 2008 240 2401 2401 2401 2401 2401 2401 2401	Yard tractor	5861	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2341 CHE On Road Diesel		
Yard tractor 5864 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2320 CHE On Road Diesel Yard tractor 5866 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Yard tractor 5867 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 939 CHE On Road Diesel Yard tractor 5868 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Yard tractor 5869 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1358 CHE On Road Diesel Yard tractor 5870 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1888 CHE On Road Diesel Yard tractor 5871 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1730 CHE On	Yard tractor	5862	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2275 CHE On Road Diesel		
Yard tractor 5866 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2321 CHE On Road Diesel Yard tractor 5867 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 939 CHE On Road Diesel Yard tractor 5868 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Yard tractor 5869 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1358 CHE On Road Diesel Yard tractor 5870 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1688 CHE On Road Diesel Yard tractor 5871 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1763 CHE On Road Diesel Yard tractor 5873 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1730 CHE On	Yard tractor	5863	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2256 CHE On Road Diesel		
Yard tractor 5867 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 939 CHE On Road Diesel Yard tractor 5868 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Yard tractor 5869 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1358 CHE On Road Diesel Yard tractor 5870 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1688 CHE On Road Diesel Yard tractor 5871 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2384 CHE On Road Diesel Yard tractor 5872 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1763 CHE On Road Diesel Yard tractor 5873 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1763 CHE On Road Diesel Yard tractor 5874 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1730 CHE On Road Diesel Yard tractor 5875 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2296 CHE On Road Diesel Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5864	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2320 CHE On Road Diesel		
Yard tractor 5868 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2431 CHE On Road Diesel Yard tractor 5869 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1358 CHE On Road Diesel Yard tractor 5870 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1688 CHE On Road Diesel Yard tractor 5871 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2384 CHE On Road Diesel Yard tractor 5872 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1763 CHE On Road Diesel Yard tractor 5873 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1730 CHE On Road Diesel Yard tractor 5874 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1730 CHE On Road Diesel Yard tractor 5875 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2296 CHE On Road Diesel Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5866	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2321 CHE On Road Diesel		
Yard tractor 5869 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1358 CHE On Road Diesel Yard tractor 5870 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1688 CHE On Road Diesel Yard tractor 5871 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2384 CHE On Road Diesel Yard tractor 5872 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1763 CHE On Road Diesel Yard tractor 5873 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1763 CHE On Road Diesel Yard tractor 5874 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1730 CHE On Road Diesel Yard tractor 5875 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2296 CHE On Road Diesel Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5867	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	939 CHE On Road Diesel		
Yard tractor 5870 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1688 CHE On Road Diesel Yard tractor 5871 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2384 CHE On Road Diesel Yard tractor 5872 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1763 CHE On Road Diesel Yard tractor 5873 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1730 CHE On Road Diesel Yard tractor 5874 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2296 CHE On Road Diesel Yard tractor 5875 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5868	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2431 CHE On Road Diesel		
Yard tractor 5871 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2384 CHE On Road Diesel Yard tractor 5872 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1763 CHE On Road Diesel Yard tractor 5873 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1730 CHE On Road Diesel Yard tractor 5874 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2296 CHE On Road Diesel Yard tractor 5875 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5869	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1358 CHE On Road Diesel		
Yard tractor 5872 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1763 CHE On Road Diesel Yard tractor 5873 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1730 CHE On Road Diesel Yard tractor 5874 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2296 CHE On Road Diesel Yard tractor 5875 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5870	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1688 CHE On Road Diesel		
Yard tractor 5873 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1730 CHE On Road Diesel Yard tractor 5874 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2296 CHE On Road Diesel Yard tractor 5875 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5871	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2384 CHE On Road Diesel		
Yard tractor 5874 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2296 CHE On Road Diesel Yard tractor 5875 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5872	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1763 CHE On Road Diesel		
Yard tractor 5875 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1815 CHE On Road Diesel Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5873	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1730 CHE On Road Diesel		
Yard tractor 5876 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1641 CHE On Road Diesel Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5874	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2296 CHE On Road Diesel		
Yard tractor 5878 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1989 CHE On Road Diesel Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5875	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1815 CHE On Road Diesel		
Yard tractor 5879 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 1625 CHE On Road Diesel	Yard tractor	5876	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1641 CHE On Road Diesel		
·	Yard tractor	5878	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1989 CHE On Road Diesel		
Yard tractor 5880 Capacity TJ9000 Diesel Cummins ISB 6.7 2008 240 2647 CHE On Road Diesel	Yard tractor	5879	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	1625 CHE On Road Diesel		
	Yard tractor	5880	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2008	240	2647 CHE On Road Diesel		



Yard tractor 5881 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2437 CHE On Road Diesel Vard tractor 5882 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 0 CHE On Road Diesel Vard tractor 5883 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 0 CHE On Road Diesel Vard tractor 5884 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 0 CHE On Road Diesel Vard tractor 5885 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 1278 CHE On Road Diesel Vard tractor 5885 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2059 CHE On Road Diesel Vard tractor 5886 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2129 CHE On Road Diesel Vard tractor 5887 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2129 CHE On Road Diesel Vard tractor 5888 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2481 CHE On Road Diesel Vard tractor 5890 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2481 CHE On Road Diesel Vard tractor 5890 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2485 CHE On Road Diesel Vard tractor 5891 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2885 CHE On Road Diesel Vard tractor 5892 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2885 CHE On Road Diesel Vard tractor 5891 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2885 CHE On Road Diesel Vard tractor 5892 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2885 CHE On Road Diesel Vard tractor 3500 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 2008 CHE On Road Diesel Vard tractor 3500 Capacity T19000 Diesel Cummins ISB 6.7 2008 240 200 CHE On Road Diesel Vard tractor 3500 Capacity T19000 Diesel Cummins ISB 6.7 2001 240 200 CHE On Road Diesel Vard tractor 3500 Capacity T19000 Diesel Cummins ISB 6.7 2011 240 2257 CHE On Road Diesel Vard tractor 3500 Capacity T19000 Diesel Cummins ISB 6.7 2011 240 2257 CHE On Road Diesel Vard tractor 3500 Capacity T19000 Diesel Cummins ISB 6.7 2011 240 2257 CHE On Road Diesel Vard tractor 3500 Capacity T19000 Diesel Cummins ISB 6.7 2011 240 2257 CHE On Road Diesel Vard tractor 3500 Capacity T19000 Diesel Cummins ISB 6.7 2011 240 2257 CHE On	Port Fauin Two	Equip ID	Fauin Mala	Equip Model	EngineTy	Engine Males	Engine Model	EngineY	HP	Annual Hours Category	DPF level 3	Blue Cat
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Yard tractor 35015 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 1827 CHE On Road Diesel Yard tractor 35016 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2431 CHE On Road Diesel Yard tractor 35017 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2425 CHE On Road Diesel Yard tractor 35018 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2425 CHE On Road Diesel Yard tractor 35019 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2357 CHE On Road Diesel Yard tractor 35020 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2357 CHE On Road Diesel Yard tractor 35021 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2161 CHE On Road Diesel Yard tractor 35022 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 1959 CHE On Road Diesel Yard tractor 35023 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2111 CHE On Road Diesel Yard tractor 35024 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2260 CHE On Road Diesel Yard tractor 35024 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2260 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 0 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 0 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2627 CHE On Road Diesel	Yard tractor			TJ9000	Diesel	Cummins	ISB 6.7	2011	240	1733 CHE On Road Diesel		
Yard tractor 35017 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2124 CHE On Road Diesel Yard tractor 35018 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2425 CHE On Road Diesel Yard tractor 35019 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2357 CHE On Road Diesel Yard tractor 35020 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2357 CHE On Road Diesel Yard tractor 35021 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2161 CHE On Road Diesel Yard tractor 35022 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 1959 CHE On Road Diesel Yard tractor 35023 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2111 CHE On Road Diesel Yard tractor 35024 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2260 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 0 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2607 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2607 CHE On Road Diesel	Yard tractor	35015		TJ9000	Diesel	Cummins	ISB 6.7	2011	240	1827 CHE On Road Diesel		
Yard tractor 35018 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2425 CHE On Road Diesel Yard tractor 35019 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2357 CHE On Road Diesel Yard tractor 35020 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2161 CHE On Road Diesel Yard tractor 35021 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 1959 CHE On Road Diesel Yard tractor 35022 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2111 CHE On Road Diesel Yard tractor 35023 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2260 CHE On Road Diesel Yard tractor 35024 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2260 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 0 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2627 CHE On Road Diesel	Yard tractor	35016	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2011	240	2431 CHE On Road Diesel		
Yard tractor 35019 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2357 CHE On Road Diesel Yard tractor 35020 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2161 CHE On Road Diesel Yard tractor 35021 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 1959 CHE On Road Diesel Yard tractor 35022 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2111 CHE On Road Diesel Yard tractor 35023 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2260 CHE On Road Diesel Yard tractor 35024 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 0 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2627 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2627 CHE On Road Diesel	Yard tractor	35017	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2011	240	2124 CHE On Road Diesel		
Yard tractor 35020 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2161 CHE On Road Diesel Yard tractor 35021 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 1959 CHE On Road Diesel Yard tractor 35022 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2111 CHE On Road Diesel Yard tractor 35023 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2260 CHE On Road Diesel Yard tractor 35024 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 0 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2627 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2627 CHE On Road Diesel	Yard tractor	35018	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2011	240	2425 CHE On Road Diesel		
Yard tractor35020CapacityTJ9000DieselCumminsISB 6.720112402161 CHE On Road DieselYard tractor35021CapacityTJ9000DieselCumminsISB 6.720112401959 CHE On Road DieselYard tractor35022CapacityTJ9000DieselCumminsISB 6.720112402111 CHE On Road DieselYard tractor35023CapacityTJ9000DieselCumminsISB 6.720112402260 CHE On Road DieselYard tractor35024CapacityTJ9000DieselCumminsISB 6.720112400 CHE On Road DieselYard tractor35025CapacityTJ9000DieselCumminsISB 6.720112402627 CHE On Road Diesel	Yard tractor	35019	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2011	240	2357 CHE On Road Diesel		
Yard tractor 35021 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 1959 CHE On Road Diesel Yard tractor 35022 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2111 CHE On Road Diesel Yard tractor 35023 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2260 CHE On Road Diesel Yard tractor 35024 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 0 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2627 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2627 CHE On Road Diesel	Yard tractor				Diesel	Cummins	ISB 6.7	2011	240	2161 CHE On Road Diesel		
Yard tractor35022CapacityTJ9000DieselCumminsISB 6.720112402111 CHE On Road DieselYard tractor35023CapacityTJ9000DieselCumminsISB 6.720112402260 CHE On Road DieselYard tractor35024CapacityTJ9000DieselCumminsISB 6.720112400 CHE On Road DieselYard tractor35025CapacityTJ9000DieselCumminsISB 6.720112402627 CHE On Road Diesel	Yard tractor				Diesel	Cummins	ISB 6.7	2011	240	1959 CHE On Road Diesel		
Yard tractor35023CapacityTJ9000DieselCumminsISB 6.720112402260 CHE On Road DieselYard tractor35024CapacityTJ9000DieselCumminsISB 6.720112400 CHE On Road DieselYard tractor35025CapacityTJ9000DieselCumminsISB 6.720112402627 CHE On Road Diesel	Yard tractor				Diesel	Cummins	ISB 6.7	2011		2111 CHE On Road Diesel		
Yard tractor 35024 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 0 CHE On Road Diesel Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2627 CHE On Road Diesel	Yard tractor					Cummins	ISB 6.7	2011	240	2260 CHE On Road Diesel		
Yard tractor 35025 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2627 CHE On Road Diesel	Yard tractor						ISB 6.7	2011	240	0 CHE On Road Diesel		
Yard tractor 35026 Capacity TJ9000 Diesel Cummins ISB 6.7 2011 240 2364 CHE On Road Diesel	Yard tractor	35025			Diesel	Cummins	ISB 6.7	2011	240	2627 CHE On Road Diesel		
	Yard tractor	35026	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2011	240	2364 CHE On Road Diesel		



Dont Family T	E : 10	Ei- M-1	Equip	EngineTy	Engine Mel	Engine	EngineY	TID	Annual	DDE1 12	Dl. C
Port Equip Type	Equip ID	Equip Make		pe	Engine Make		ear	HP	Hours Category	DPF level 3	Blue Cat
Yard tractor Yard tractor	35027	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1805 CHE On Road Dies		
	35028	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2330 CHE On Road Dies		
Yard tractor	35029	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2527 CHE On Road Dies		
Yard tractor	35030	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2731 CHE On Road Dies		
Yard tractor	35031	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2785 CHE On Road Dies		
Yard tractor	35032	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2774 CHE On Road Dies		
Yard tractor	35033	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1509 CHE On Road Dies		
Yard tractor	35034	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2303 CHE On Road Dies		
Yard tractor	35035	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1344 CHE On Road Dies		
Yard tractor	35036	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2678 CHE On Road Dies		
Yard tractor	35037	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1903 CHE On Road Dies		
Yard tractor	35038	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2512 CHE On Road Dies		
Yard tractor	35041	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1581 CHE On Road Dies		
Yard tractor	35042	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2392 CHE On Road Dies		
Yard tractor	35043	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2119 CHE On Road Dies		
Yard tractor	35044	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1413 CHE On Road Dies		
Yard tractor	35045	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1523 CHE On Road Dies		
Yard tractor	35046	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2279 CHE On Road Dies		
Yard tractor	35047	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2251 CHE On Road Dies		
Yard tractor	35049	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2450 CHE On Road Dies		
Yard tractor	35050	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2016 CHE On Road Dies		
Yard tractor	35051	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1713 CHE On Road Dies		
Yard tractor	35052	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1892 CHE On Road Dies	el	
Yard tractor	35053	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2587 CHE On Road Dies	el	
Yard tractor	35054	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2485 CHE On Road Dies	el	
Yard tractor	35055	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2005 CHE On Road Dies	el	
Yard tractor	35056	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2269 CHE On Road Dies	el	
Yard tractor	35057	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2227 CHE On Road Dies	el	
Yard tractor	35058	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2584 CHE On Road Dies	el	
Yard tractor	35060	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2415 CHE On Road Dies	el	
Yard tractor	35061	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1972 CHE On Road Dies	el	
Yard tractor	35062	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2813 CHE On Road Dies	el	
Yard tractor	35063	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2001 CHE On Road Dies	el	
Yard tractor	35064	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	1343 CHE On Road Dies	el	
Yard tractor	35065	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2497 CHE On Road Dies	el	
Yard tractor	35066	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2425 CHE On Road Dies	el	
Yard tractor	35067	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2585 CHE On Road Dies	el	
Yard tractor	35068	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	3015 CHE On Road Dies	el	
Yard tractor	35069	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240	2815 CHE On Road Dies		



D. A. F T	E . 10	E : 10 16 1	Equip	EngineTy	T	Engine	EngineY		Annual	Catalana	DDE1 12	Di C
Port Equip Type	Equip ID	Equip Make		pe	Engine Make		ear			Category	DPF level 3	Blue Cat
Yard tractor	35070	Capacity	TJ9000	Diesel	Cummins	ISB 6.7	2012	240		CHE On Road Diesel		
Yard tractor	04-194	Ottawa	YT-50	Diesel	Cummins	ISB6	2012	250		CHE On Road Diesel		
Yard tractor	04-195	Ottawa	YT-50	Diesel	Cummins	ISB6	2012	250		CHE On Road Diesel		
Yard tractor	28838R	Ottawa	T2	Diesel	Cummins	QSB6.7 Tier 4		164		CHE Diesel		
Yard tractor	29524R	Kalmar		Diesel	Cummins	ISB6.7 200	2012	200		CHE On Road Diesel		
Yard tractor	30205R	Kalmar	T10000	Diesel	Cummins	ISB6.7 200	2015	200		CHE On Road Diesel		
Yard tractor	5UTR1600		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1600	•	TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1600		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1600		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1600		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1600	•	TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1600		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1600		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1600		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1600	•	TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1601		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1601		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1601		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1601		TJ9000	Diesel	Cummins	QSB 6.7	2016	225		CHE Diesel		
Yard tractor	5UTR1900		4x2	Diesel			2019	225		CHE Diesel		
Yard tractor	5UTR1900		4x2	Diesel			2019	225		CHE Diesel		
Yard tractor	H072	Kalmar/Otta	ı T2	Diesel	Cummins	QSB6.7225	2016	225	113	CHE Diesel		
Yard tractor	H073	Kalmar/Otta		Diesel	Cummins	QSB6.7225	2016	225		CHE Diesel		
Yard tractor	H074	Kalmar/Otta	ı [.] T2	Diesel	Cummins	QSB6.7225	2016	225	2180	CHE Diesel		
Yard tractor	H075	Kalmar/Otta		Diesel	Cummins	QSB6.7225	2016	225	2094	CHE Diesel		
Yard tractor	H076	Kalmar/Otta	ı T2	Diesel	Cummins	QSB6.7225	2016	225	2167	CHE Diesel		
Yard tractor	H077	Kalmar/Otta	ı T2	Diesel	Cummins	QSB6.7225	2016	225	2429	CHE Diesel		
Yard tractor	H078	Kalmar/Otta	ı T2	Diesel	Cummins	QSB6.7225	2016	225	2068	CHE Diesel		
Yard tractor	H079	Kalmar/Otta	r' T2	Diesel	Cummins	QSB6.7225	2016	225	2177	CHE Diesel		
Yard tractor	H080	Kalmar/Otta	r' T2	Diesel	Cummins	QSB6.7225	2016	225	1961	CHE Diesel		
Yard tractor	H081	Kalmar/Otta	ı [.] T2	Diesel	Cummins	QSB6.7225	2016	225	2093	CHE Diesel		
Yard tractor	H082	Kalmar/Otta	ı T2	Diesel	Cummins	QSB6.7225	2016	225	2052	CHE Diesel		
Yard tractor	H083	Kalmar/Otta	ı T2	Diesel	Cummins	QSB6.7225	2016	225	2107	CHE Diesel		
Yard tractor	H084	Kalmar/Otta	ı T2	Diesel	Cummins	QSB6.7225	2016	225	2085	CHE Diesel		
Yard tractor	H085	Kalmar/Otta	ı T2	Diesel	Cummins	QSB6.7225	2016	225	2180	CHE Diesel		
Yard tractor	H086	Kalmar/Otta	ı T2	Diesel	Cummins	QSB6.7225	2016	225	2435	CHE Diesel		
Yard tractor	H087	Kalmar/Otta	ı [,] T2	Diesel	Cummins	QSB6.7225	2016	225	2177	CHE Diesel		



Dont Farrin T	E:- ID	Fauls Mal	Equip Model	EngineTy	Engine Mal	Engine	EngineY	HP	Annual	Catagoggy	DPF level 3	Dlu- C
Port Equip Type Yard tractor	Equip ID H-107	Equip Make	TJ7000	pe	Engine Make	ISB6.7	ear 2008	173	Hours	Category CHE On Road Diesel	DPF level 3	Blue Cat
Yard tractor	H-107	Capacity	TJ7000	Diesel Diesel	Cummins Cummins	ISB6.7	2008	173		CHE On Road Diesel		
Yard tractor	н-106 H-109	Capacity		Diesel	Cummins	ISB6.7	2008	173		CHE On Road Diesel		
		Capacity	TJ7000			ISB6.7				CHE On Road Diesel		
Yard tractor	H-110	Capacity	TJ7000	Diesel	Cummins	ISB6.7	2008 2008	173		CHE On Road Diesel		
Yard tractor	H-111	Capacity	TJ7000	Diesel	Cummins	ISB6.7		173		CHE On Road Diesel		
Yard tractor	H-112	Capacity	TJ7000	Diesel	Cummins		2008	173				
Yard tractor	H-113	Capacity	TJ7000	Diesel	Cummins	ISB6.7	2008	173		CHE On Road Diesel		
Yard tractor	H-118	Capacity	TJ7000	Diesel	Edelbrock	454 Engine	2017	204		CHE Diesel		
Yard tractor	H-119	Capacity	TJ7000	Diesel	Edelbrock	454 Engine	2017	204		CHE Diesel		
Yard tractor	H-121	Capacity	TJ7000	Diesel	Edelbrock	454 Engine	2017	204		CHE Diesel		
Yard tractor	H-280	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-281	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-282	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-283	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-417	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
ard tractor	H-418	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
ard tractor	H-419	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-420	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
ard tractor	H-421	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-422	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-423	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-424	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-425	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	112 (CHE On Road Diesel		
Yard tractor	H-426	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	2268 (CHE On Road Diesel		
Yard tractor	H-427	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	2352 (CHE On Road Diesel		
Yard tractor	H-428	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	1994 (CHE On Road Diesel		
Yard tractor	H-429	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	1245 (CHE On Road Diesel		
Yard tractor	H-430	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	2123 (CHE On Road Diesel		
Yard tractor	H-431	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	1805 (CHE On Road Diesel		
Yard tractor	H-432	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	1801 (CHE On Road Diesel		
Yard tractor	H-433	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	2218	CHE On Road Diesel		
Yard tractor	H-434	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	2332 (CHE On Road Diesel		
Yard tractor	H-435	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	2035 (CHE On Road Diesel		
Yard tractor	H-436	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	2035 (CHE On Road Diesel		
Yard tractor	H-437	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200	2443 (CHE On Road Diesel		
Yard tractor	H-438	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-439	Capacity	TJ7000	Diesel	Cummins	ISB Tier 3	2007	200		CHE On Road Diesel		
Yard tractor	H-507	Capacity	TJ7000	Diesel	Cummins	ISB6.7	2007	173		CHE On Road Diesel		
Yard tractor	H-508	Capacity	TJ7000	Diesel	Cummins	ISB6.7	2007	173		CHE On Road Diesel		



Port Bayip Type Equip Make Model pe Engine Make Model ear HP Hours Caregory DPF level 3 Yard tractor H-509 Capacity T17000 Diesel Cummins ISB6.7 2007 173 1912 CHE On Road Diesel Yard tractor H-511 Capacity T17000 Diesel Cummins ISB6.7 2007 173 2008 CHE On Road Diesel Yard tractor H-512 Capacity T17000 Diesel Cummins ISB6.7 2007 173 1897 CHE On Road Diesel Yard tractor H-514 Capacity T17000 Diesel Cummins ISB6.7 2007 173 1247 CHE On Road Diesel Yard tractor H-514 Capacity T17000 Diesel Cummins ISB6.7 2007 173 1247 CHE On Road Diesel Yard tractor H-516 Capacity T17000 Diesel Cummins ISB6.7 2007 173 1590 CHE On Road Diesel Yard	Rlue Cat
Yard tractor H-510 Capacity TJ7000 Diesel Cummins ISB6.7 2007 173 2033 CHE On Road Diesel Yard tractor H-511 Capacity TJ7000 Diesel Cummins ISB6.7 2007 173 2008 CHE On Road Diesel Yard tractor H-512 Capacity TJ7000 Diesel Cummins ISB6.7 2007 173 1897 CHE On Road Diesel Yard tractor H-513 Capacity TJ7000 Diesel Cummins ISB6.7 2007 173 2447 CHE On Road Diesel Yard tractor H-515 Capacity TJ7000 Diesel Cummins ISB6.7 2007 173 1936 CHE On Road Diesel Yard tractor H-516 Capacity TJ7000 Diesel Cummins ISB6.7 2007 173 1930 CHE On Road Diesel Yard tractor H-518 Capacity TJ7000 Diesel Cummins ISB6.7 2007 173 1932 CHE On Road Diesel Yard tractor H-519 Capacity	Blue Cat
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Yard tractor H7079 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2925 CHE Diesel Yard tractor H7080 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2025 CHE Diesel Yard tractor H7081 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 248 CHE Diesel Yard tractor H7083 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1949 CHE Diesel Yard tractor H7084 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1949 CHE Diesel Yard tractor H7085 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1940 CHE Diesel Yard tractor H7086 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1529 CHE Diesel Yard tractor H7088 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2759 CHE Diesel Yard tractor <td>Yard tractor</td> <td>H7077</td> <td>Kalmar/Otta</td> <td>Diesel</td> <td>Cummins</td> <td>6.7 QSB</td> <td>2016</td> <td>225</td> <td>2420 CHE Diesel</td> <td></td> <td></td>	Yard tractor	H7077	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2420 CHE Diesel		
Yard tractor H7080 Kalmar/Otta' Diesel Cummins 6.7 QSB 2016 225 2025 CHE Diesel Yard tractor H7081 Kalmar/Otta' Diesel Cummins 6.7 QSB 2016 225 248 CHE Diesel Yard tractor H7082 Kalmar/Otta' Diesel Cummins 6.7 QSB 2016 225 1949 CHE Diesel Yard tractor H7084 Kalmar/Otta' Diesel Cummins 6.7 QSB 2016 225 1949 CHE Diesel Yard tractor H7084 Kalmar/Otta' Diesel Cummins 6.7 QSB 2016 225 1949 CHE Diesel Yard tractor H7085 Kalmar/Otta' Diesel Cummins 6.7 QSB 2016 225 1290 CHE Diesel Yard tractor H7086 Kalmar/Otta' Diesel Cummins 6.7 QSB 2016 225 2279 CHE Diesel Yard tractor H7088 Kalmar/Otta' Diesel Cummins 6.7 QSB 2016 225 22798 CHE Diesel Yard tr	Yard tractor	H7078	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2120 CHE Diesel		
Yard tractor H7081 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2448 CHE Diesel Yard tractor H7082 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 249 CHE Diesel Yard tractor H7084 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2190 CHE Diesel Yard tractor H7085 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2190 CHE Diesel Yard tractor H7086 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 229 CHE Diesel Yard tractor H7087 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2259 CHE Diesel Yard tractor H7088 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2100 CHE Diesel Yard tractor H7099 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2155 CHE Diesel Yard tractor	Yard tractor	H7079	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2925 CHE Diesel		
Yard tractor H7082 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 249 CHE Diesel Yard tractor H7083 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1949 CHE Diesel Yard tractor H7085 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1940 CHE Diesel Yard tractor H7086 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 225 CHE Diesel Yard tractor H7087 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 275 D CHE Diesel Yard tractor H7087 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 275 D CHE Diesel Yard tractor H7089 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 278 D CHE Diesel Yard tractor H7091 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 275 D CHE Diesel Yard tractor<	Yard tractor	H7080	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2025 CHE Diesel		
Yard tractor H7083 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1949 CHE Diesel Yard tractor H7084 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2190 CHE Diesel Yard tractor H7085 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2190 CHE Diesel Yard tractor H7086 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 229 CHE Diesel Yard tractor H7088 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2100 CHE Diesel Yard tractor H7089 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2078 CHE Diesel Yard tractor H7099 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2155 CHE Diesel Yard tractor H7091 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2866 CHE Diesel Yard tractor <td>Yard tractor</td> <td>H7081</td> <td>Kalmar/Otta</td> <td>Diesel</td> <td>Cummins</td> <td>6.7 QSB</td> <td>2016</td> <td>225</td> <td>2448 CHE Diesel</td> <td></td> <td></td>	Yard tractor	H7081	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2448 CHE Diesel		
Yard tractor H7084 Kalmar/Ottar Diesel Cummins 6.7 QSB 2016 225 2190 CHE Diesel Yard tractor H7085 Kalmar/Ottar Diesel Cummins 6.7 QSB 2016 225 1624 CHE Diesel Yard tractor H7086 Kalmar/Ottar Diesel Cummins 6.7 QSB 2016 225 2292 CHE Diesel Yard tractor H7087 Kalmar/Ottar Diesel Cummins 6.7 QSB 2016 225 2759 CHE Diesel Yard tractor H7088 Kalmar/Ottar Diesel Cummins 6.7 QSB 2016 225 2078 CHE Diesel Yard tractor H7090 Kalmar/Ottar Diesel Cummins 6.7 QSB 2016 225 2078 CHE Diesel Yard tractor H7091 Kalmar/Ottar Diesel Cummins 6.7 QSB 2016 225 2056 CHE Diesel Yard tractor H7092 Kalmar/Ottar Diesel Cummins 6.7 QSB 2016 225 2321 CHE Diesel Yard tr	Yard tractor	H7082	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	249 CHE Diesel		
Yard tractor H7085 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1624 CHE Diesel Yard tractor H7086 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2229 CHE Diesel Yard tractor H7087 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2759 CHE Diesel Yard tractor H7088 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2759 CHE Diesel Yard tractor H7099 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2155 CHE Diesel Yard tractor H7091 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2155 CHE Diesel Yard tractor H7091 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2155 CHE Diesel Yard tractor H7092 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2321 CHE Diesel Yard tractor <td>Yard tractor</td> <td>H7083</td> <td>Kalmar/Otta</td> <td>Diesel</td> <td>Cummins</td> <td>6.7 QSB</td> <td>2016</td> <td>225</td> <td>1949 CHE Diesel</td> <td></td> <td></td>	Yard tractor	H7083	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	1949 CHE Diesel		
Yard tractor H7086 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2229 CHE Diesel Yard tractor H7087 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2759 CHE Diesel Yard tractor H7088 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2100 CHE Diesel Yard tractor H7090 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2078 CHE Diesel Yard tractor H7090 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2155 CHE Diesel Yard tractor H7091 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2155 CHE Diesel Yard tractor H7092 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2866 CHE Diesel Yard tractor H7094 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2321 CHE Diesel Yard tractor <td>Yard tractor</td> <td>H7084</td> <td>Kalmar/Otta</td> <td>Diesel</td> <td>Cummins</td> <td>6.7 QSB</td> <td>2016</td> <td>225</td> <td>2190 CHE Diesel</td> <td></td> <td></td>	Yard tractor	H7084	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2190 CHE Diesel		
Yard tractor H7087 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2759 CHE Diesel Yard tractor H7088 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2100 CHE Diesel Yard tractor H7089 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2078 CHE Diesel Yard tractor H7090 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2155 CHE Diesel Yard tractor H7091 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2156 CHE Diesel Yard tractor H7091 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2866 CHE Diesel Yard tractor H7093 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2321 CHE Diesel Yard tractor H7094 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 25648 CHE Diesel Yard tractor </td <td>Yard tractor</td> <td>H7085</td> <td>Kalmar/Otta</td> <td>Diesel</td> <td>Cummins</td> <td>6.7 QSB</td> <td>2016</td> <td>225</td> <td>1624 CHE Diesel</td> <td></td> <td></td>	Yard tractor	H7085	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	1624 CHE Diesel		
Yard tractorH7088Kalmar/OttarDieselCummins6.7 QSB20162252100 CHE DieselYard tractorH7089Kalmar/OttarDieselCummins6.7 QSB20162252078 CHE DieselYard tractorH7090Kalmar/OttarDieselCummins6.7 QSB20162252155 CHE DieselYard tractorH7091Kalmar/OttarDieselCummins6.7 QSB20162251468 CHE DieselYard tractorH7092Kalmar/OttarDieselCummins6.7 QSB20162252866 CHE DieselYard tractorH7093Kalmar/OttarDieselCummins6.7 QSB20162252321 CHE DieselYard tractorH7094Kalmar/OttarDieselCummins6.7 QSB20162252321 CHE DieselYard tractorH7095Kalmar/OttarDieselCummins6.7 QSB20162252570 CHE DieselYard tractorH7096Kalmar/OttarDieselCummins6.7 QSB20162252648 CHE DieselYard tractorH7097Kalmar/OttarDieselCummins6.7 QSB20162251983 CHE DieselYard tractorH7098Kalmar/OttarDieselCummins6.7 QSB20162251983 CHE DieselYard tractorH7099Kalmar/OttarDieselCummins6.7 QSB20162252252492 CHE DieselYard tractorH7101Kalmar/OttarDieselCummins <td< td=""><td>Yard tractor</td><td>H7086</td><td>Kalmar/Otta</td><td>Diesel</td><td>Cummins</td><td>6.7 QSB</td><td>2016</td><td>225</td><td>2229 CHE Diesel</td><td></td><td></td></td<>	Yard tractor	H7086	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2229 CHE Diesel		
Yard tractor H7089 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2078 CHE Diesel Yard tractor H7090 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2155 CHE Diesel Yard tractor H7091 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1468 CHE Diesel Yard tractor H7092 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2866 CHE Diesel Yard tractor H7093 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2320 CHE Diesel Yard tractor H7094 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2750 CHE Diesel Yard tractor H7095 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2648 CHE Diesel Yard tractor H7096 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1215 CHE Diesel Yard tractor <td>Yard tractor</td> <td>H7087</td> <td>Kalmar/Otta</td> <td>Diesel</td> <td>Cummins</td> <td>6.7 QSB</td> <td>2016</td> <td>225</td> <td>2759 CHE Diesel</td> <td></td> <td></td>	Yard tractor	H7087	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2759 CHE Diesel		
Yard tractorH7090Kalmar/OttarDieselCummins6.7 QSB20162252155 CHE DieselYard tractorH7091Kalmar/OttarDieselCummins6.7 QSB20162251468 CHE DieselYard tractorH7092Kalmar/OttarDieselCummins6.7 QSB20162252866 CHE DieselYard tractorH7093Kalmar/OttarDieselCummins6.7 QSB20162252321 CHE DieselYard tractorH7094Kalmar/OttarDieselCummins6.7 QSB20162252750 CHE DieselYard tractorH7095Kalmar/OttarDieselCummins6.7 QSB20162252648 CHE DieselYard tractorH7096Kalmar/OttarDieselCummins6.7 QSB20162252648 CHE DieselYard tractorH7097Kalmar/OttarDieselCummins6.7 QSB20162251215 CHE DieselYard tractorH7098Kalmar/OttarDieselCummins6.7 QSB20162251292 CHE DieselYard tractorH7099Kalmar/OttarDieselCummins6.7 QSB20162252274 CHE DieselYard tractorH7100Kalmar/OttarDieselCummins6.7 QSB20162252284 CHE DieselYard tractorH7101Kalmar/OttarDieselCummins6.7 QSB20162252293 CHE DieselYard tractorH7102Kalmar/OttarDieselCummins6.7 QSB <td>Yard tractor</td> <td>H7088</td> <td>Kalmar/Otta</td> <td>Diesel</td> <td>Cummins</td> <td>6.7 QSB</td> <td>2016</td> <td>225</td> <td>2100 CHE Diesel</td> <td></td> <td></td>	Yard tractor	H7088	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2100 CHE Diesel		
Yard tractorH7091Kalmar/OttarDieselCummins6.7 QSB20162251468 CHE DieselYard tractorH7092Kalmar/OttarDieselCummins6.7 QSB20162252866 CHE DieselYard tractorH7093Kalmar/OttarDieselCummins6.7 QSB20162252321 CHE DieselYard tractorH7094Kalmar/OttarDieselCummins6.7 QSB20162252750 CHE DieselYard tractorH7095Kalmar/OttarDieselCummins6.7 QSB20162252648 CHE DieselYard tractorH7096Kalmar/OttarDieselCummins6.7 QSB20162252252648 CHE DieselYard tractorH7097Kalmar/OttarDieselCummins6.7 QSB20162251215 CHE DieselYard tractorH7098Kalmar/OttarDieselCummins6.7 QSB20162251983 CHE DieselYard tractorH7099Kalmar/OttarDieselCummins6.7 QSB20162252274 CHE DieselYard tractorH7101Kalmar/OttarDieselCummins6.7 QSB20162252493 CHE DieselYard tractorH7102Kalmar/OttarDieselCummins6.7 QSB20162252252493 CHE DieselYard tractorH7103Kalmar/OttarDieselCummins6.7 QSB20162252252245 CHE DieselYard tractorH7104Kalmar/OttarDiesel	Yard tractor	H7089	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2078 CHE Diesel		
Yard tractorH7092Kalmar/OttaDieselCummins6.7 QSB20162252866 CHE DieselYard tractorH7093Kalmar/OttaDieselCummins6.7 QSB20162252321 CHE DieselYard tractorH7094Kalmar/OttaDieselCummins6.7 QSB20162252750 CHE DieselYard tractorH7095Kalmar/OttaDieselCummins6.7 QSB20162252648 CHE DieselYard tractorH7096Kalmar/OttaDieselCummins6.7 QSB20162251215 CHE DieselYard tractorH7097Kalmar/OttaDieselCummins6.7 QSB20162251983 CHE DieselYard tractorH7098Kalmar/OttaDieselCummins6.7 QSB20162252192 CHE DieselYard tractorH7099Kalmar/OttaDieselCummins6.7 QSB20162252274 CHE DieselYard tractorH7100Kalmar/OttaDieselCummins6.7 QSB20162252840 CHE DieselYard tractorH7101Kalmar/OttaDieselCummins6.7 QSB20162252493 CHE DieselYard tractorH7103Kalmar/OttaDieselCummins6.7 QSB20162252323 CHE DieselYard tractorH7104Kalmar/OttaDieselCummins6.7 QSB20162252245 CHE Diesel	Yard tractor	H7090	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2155 CHE Diesel		
Yard tractorH7093Kalmar/Otta'DieselCummins6.7 QSB20162252321 CHE DieselYard tractorH7094Kalmar/Otta'DieselCummins6.7 QSB20162252750 CHE DieselYard tractorH7095Kalmar/Otta'DieselCummins6.7 QSB20162252648 CHE DieselYard tractorH7096Kalmar/Otta'DieselCummins6.7 QSB20162251215 CHE DieselYard tractorH7097Kalmar/Otta'DieselCummins6.7 QSB20162251983 CHE DieselYard tractorH7098Kalmar/Otta'DieselCummins6.7 QSB20162252192 CHE DieselYard tractorH7099Kalmar/Otta'DieselCummins6.7 QSB20162252274 CHE DieselYard tractorH7100Kalmar/Otta'DieselCummins6.7 QSB20162252840 CHE DieselYard tractorH7101Kalmar/Otta'DieselCummins6.7 QSB20162252493 CHE DieselYard tractorH7103Kalmar/Otta'DieselCummins6.7 QSB20162252323 CHE DieselYard tractorH7104Kalmar/Otta'DieselCummins6.7 QSB20162252323 CHE Diesel	Yard tractor	H7091	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	1468 CHE Diesel		
Yard tractorH7094Kalmar/OttaDieselCummins6.7 QSB20162252750 CHE DieselYard tractorH7095Kalmar/OttaDieselCummins6.7 QSB20162252648 CHE DieselYard tractorH7096Kalmar/OttaDieselCummins6.7 QSB20162251215 CHE DieselYard tractorH7097Kalmar/OttaDieselCummins6.7 QSB20162251983 CHE DieselYard tractorH7098Kalmar/OttaDieselCummins6.7 QSB20162252192 CHE DieselYard tractorH7099Kalmar/OttaDieselCummins6.7 QSB20162252274 CHE DieselYard tractorH7100Kalmar/OttaDieselCummins6.7 QSB20162252840 CHE DieselYard tractorH7101Kalmar/OttaDieselCummins6.7 QSB20162252493 CHE DieselYard tractorH7103Kalmar/OttaDieselCummins6.7 QSB20162252323 CHE DieselYard tractorH7104Kalmar/OttaDieselCummins6.7 QSB20162252252323 CHE Diesel	Yard tractor	H7092	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2866 CHE Diesel		
Yard tractorH7095Kalmar/OttaDieselCummins6.7 QSB20162252648 CHE DieselYard tractorH7096Kalmar/OttaDieselCummins6.7 QSB20162251215 CHE DieselYard tractorH7097Kalmar/OttaDieselCummins6.7 QSB20162251983 CHE DieselYard tractorH7098Kalmar/OttaDieselCummins6.7 QSB20162252192 CHE DieselYard tractorH7099Kalmar/OttaDieselCummins6.7 QSB20162252274 CHE DieselYard tractorH7100Kalmar/OttaDieselCummins6.7 QSB20162252840 CHE DieselYard tractorH7101Kalmar/OttaDieselCummins6.7 QSB20162252493 CHE DieselYard tractorH7102Kalmar/OttaDieselCummins6.7 QSB20162251250 CHE DieselYard tractorH7103Kalmar/OttaDieselCummins6.7 QSB20162252323 CHE DieselYard tractorH7104Kalmar/OttaDieselCummins6.7 QSB20162252245 CHE Diesel	Yard tractor	H7093	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2321 CHE Diesel		
Yard tractor H7096 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1215 CHE Diesel Yard tractor H7097 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1983 CHE Diesel Yard tractor H7098 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2192 CHE Diesel Yard tractor H7099 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2274 CHE Diesel Yard tractor H7100 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2840 CHE Diesel Yard tractor H7101 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2493 CHE Diesel Yard tractor H7102 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2493 CHE Diesel Yard tractor H7103 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1250 CHE Diesel Yard tractor H7104 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2323 CHE Diesel Yard tractor H7104 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2245 CHE Diesel	Yard tractor	H7094	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2750 CHE Diesel		
Yard tractorH7097Kalmar/OttaDieselCummins6.7 QSB20162251983 CHE DieselYard tractorH7098Kalmar/OttaDieselCummins6.7 QSB20162252192 CHE DieselYard tractorH7099Kalmar/OttaDieselCummins6.7 QSB20162252274 CHE DieselYard tractorH7100Kalmar/OttaDieselCummins6.7 QSB20162252840 CHE DieselYard tractorH7101Kalmar/OttaDieselCummins6.7 QSB20162252493 CHE DieselYard tractorH7102Kalmar/OttaDieselCummins6.7 QSB20162251250 CHE DieselYard tractorH7103Kalmar/OttaDieselCummins6.7 QSB20162252323 CHE DieselYard tractorH7104Kalmar/OttaDieselCummins6.7 QSB20162252245 CHE Diesel	Yard tractor	H7095	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2648 CHE Diesel		
Yard tractor H7098 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2192 CHE Diesel Yard tractor H7099 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2274 CHE Diesel Yard tractor H7100 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2840 CHE Diesel Yard tractor H7101 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2493 CHE Diesel Yard tractor H7102 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1250 CHE Diesel Yard tractor H7103 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2323 CHE Diesel Yard tractor H7104 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2323 CHE Diesel	Yard tractor	H7096	•	Diesel	Cummins	6.7 QSB	2016	225	1215 CHE Diesel		
Yard tractor H7099 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2274 CHE Diesel Yard tractor H7100 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2840 CHE Diesel Yard tractor H7101 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2493 CHE Diesel Yard tractor H7102 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1250 CHE Diesel Yard tractor H7103 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2323 CHE Diesel Yard tractor H7104 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2323 CHE Diesel	Yard tractor	H7097	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	1983 CHE Diesel		
Yard tractor H7100 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2840 CHE Diesel Yard tractor H7101 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2493 CHE Diesel Yard tractor H7102 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 1250 CHE Diesel Yard tractor H7103 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2323 CHE Diesel Yard tractor H7104 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2245 CHE Diesel	Yard tractor	H7098	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2192 CHE Diesel		
Yard tractorH7101Kalmar/OttaDieselCummins6.7 QSB20162252493 CHE DieselYard tractorH7102Kalmar/OttaDieselCummins6.7 QSB20162251250 CHE DieselYard tractorH7103Kalmar/OttaDieselCummins6.7 QSB20162252323 CHE DieselYard tractorH7104Kalmar/OttaDieselCummins6.7 QSB20162252245 CHE Diesel	Yard tractor	H7099	Kalmar/Otta	Diesel	Cummins		2016	225	2274 CHE Diesel		
Yard tractorH7102Kalmar/OttaDieselCummins6.7 QSB20162251250 CHE DieselYard tractorH7103Kalmar/OttaDieselCummins6.7 QSB20162252323 CHE DieselYard tractorH7104Kalmar/OttaDieselCummins6.7 QSB20162252245 CHE Diesel	Yard tractor		Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225			
Yard tractorH7103Kalmar/OttaDieselCummins6.7 QSB20162252323 CHE DieselYard tractorH7104Kalmar/OttaDieselCummins6.7 QSB20162252245 CHE Diesel	Yard tractor	H7101	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2493 CHE Diesel		
Yard tractor H7104 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2245 CHE Diesel	Yard tractor	H7102	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	1250 CHE Diesel		
	Yard tractor	H7103	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2323 CHE Diesel		
Yard tractor H7105 Kalmar/Otta Diesel Cummins 6.7 QSB 2016 225 2078 CHE Diesel	Yard tractor	H7104	Kalmar/Otta	Diesel	Cummins		2016	225	2245 CHE Diesel		
	Yard tractor	H7105	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2078 CHE Diesel		



Port Equip Type	Equip ID	Equip Make Mode		Engine Make	Engine Model	EngineY ear	HP	Annual Hours Category	DPF level 3	Blue Cat
Yard tractor	H7106	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	0 CHE Diesel	DIT REVEIS	Diac Cat
Yard tractor	H7107	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2330 CHE Diesel		
Yard tractor	H7108	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2251 CHE Diesel		
Yard tractor	H7109	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	2375 CHE Diesel		
Yard tractor	H7110	Kalmar/Otta	Diesel	Cummins	6.7 QSB	2016	225	1980 CHE Diesel		
Yard tractor	LAYT0021	Ottawa	Diesel		•	2008		160 CHE On Road Diesel		
Yard tractor	LAYT0022	Ottawa	Diesel			2008		0 CHE On Road Diesel		
Yard tractor	LAYT0023	Ottawa	Diesel			2008		190 CHE On Road Diesel		
Yard tractor	T202	Kalmar	Diesel	Cummins	ISB 200	2007	200	689 CHE On Road Diesel		
Yard tractor	T203	Kalmar	Diesel	Cummins	ISB 200	2007	200	521 CHE On Road Diesel		
Yard tractor	T207	Kalmar	Diesel	Cummins	ISB 200	2007	200	155 CHE On Road Diesel		
Yard tractor	T209	Kalmar	Diesel	Cummins	ISB 200	2007	200	889 CHE On Road Diesel		
Yard tractor	T211	Kalmar	Diesel	Cummins	ISB 200	2007	200	1,517 CHE On Road Diesel		
Yard tractor	T212	Kalmar	Diesel	Cummins	ISB 200	2007	200	402 CHE On Road Diesel		
Yard tractor	T213	Kalmar	Diesel	Cummins	ISB 200	2007	200	8 CHE On Road Diesel		
Yard tractor	T214	Kalmar	Diesel	Cummins	ISB 200	2007	200	785 CHE On Road Diesel		
Yard tractor	T215	Kalmar	Diesel	Cummins	ISB 200	2008	200	1,155 CHE On Road Diesel		
Yard tractor	T216	Kalmar	Diesel	Cummins	ISB 200	2008	200	313 CHE On Road Diesel		
Yard tractor	T218	Kalmar	Diesel	Cummins	ISB 200	2008	200	764 CHE On Road Diesel		
Yard tractor	T219	Kalmar	Diesel	Cummins	ISB 200	2008	200	705 CHE On Road Diesel		
Yard tractor	T220	Kalmar	Diesel	Cummins	ISB 200	2008	200	6 CHE On Road Diesel		
Yard tractor	T221	Kalmar	Diesel	Cummins	ISB 200	2008	200	354 CHE On Road Diesel		
Yard tractor	T222	Kalmar	Diesel	Cummins	ISB 200	2008	200	818 CHE On Road Diesel		
Yard tractor	T225	Kalmar	Diesel	Cummins	ISB 200	2008	200	680 CHE On Road Diesel		
Yard tractor	T226	Kalmar	Diesel	Cummins	ISB 200	2008	200	1243 CHE On Road Diesel		
Yard tractor	T228	Kalmar	Diesel	Cummins	ISB 200	2008	200	307 CHE On Road Diesel		
Yard tractor	T229	Kalmar	Diesel	Cummins	ISB 200	2008	200	570 CHE On Road Diesel		
Yard tractor	T231	Kalmar	Diesel	Cummins	ISB 200	2008	200	1017 CHE On Road Diesel		
Yard tractor	T232	Kalmar	Diesel	Cummins	ISB 200	2008	200	1257 CHE On Road Diesel		
Yard tractor	T233	Kalmar ISB20		Cummins	ISB 200	2009	200	447 CHE On Road Diesel		
Yard tractor	T234	Kalmar ISB20		Cummins	ISB 200	2009	200	602 CHE On Road Diesel		
Yard tractor	T235	Kalmar ISB20		Cummins	ISB 200	2009	200	537 CHE On Road Diesel		
Yard tractor	T236	Kalmar ISB20		Cummins	ISB 200	2009	200	428 CHE On Road Diesel		
Yard tractor	T238	Kalmar ISB20		Cummins	ISB 200	2009	200	921 CHE On Road Diesel		
Yard tractor	T240	Kalmar ISB20		Cummins	ISB 200	2009	200	590 CHE On Road Diesel		
Yard tractor	T242	Kalmar ISB20		Cummins	ISB 200	2009	200	777 CHE On Road Diesel		
Yard tractor	T243	Kalmar ISB20		Cummins	ISB 200	2009	200	624 CHE On Road Diesel		
Yard tractor	T245	Kalmar ISB20		Cummins	ISB 200	2009	200	945 CHE On Road Diesel		
Yard tractor	T246	Kalmar ISB20	00 Diesel	Cummins	ISB 200	2009	200	610 CHE On Road Diesel		



			Equip	EngineTy		Engine	EngineY		Annual	DDE 4	DI O
Port Equip Type	Equip ID			pe	Engine Make		ear	HP	Hours Category	DPF level 3	Blue Cat
Yard tractor	T248	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	669 CHE On Road Diesel		
Yard tractor	T249	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	722 CHE On Road Diesel		
Yard tractor	T250	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	384 CHE On Road Diesel		
Yard tractor	T251	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	892 CHE On Road Diesel		
Yard tractor	T253	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	322 CHE On Road Diesel		
Yard tractor	T257	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	1606 CHE On Road Diesel		
Yard tractor	T258	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	796 CHE On Road Diesel		
Yard tractor	T259	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	800 CHE On Road Diesel		
Yard tractor	T262	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	1385 CHE On Road Diesel		
Yard tractor	T264	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	850 CHE On Road Diesel		
Yard tractor	T265	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	848 CHE On Road Diesel		
Yard tractor	T267	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	1334 CHE On Road Diesel		
Yard tractor	T268	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	244 CHE On Road Diesel		
Yard tractor	T270	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	108 CHE On Road Diesel		
Yard tractor	T271	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	377 CHE On Road Diesel		
Yard tractor	T272	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	252 CHE On Road Diesel		
Yard tractor	T274	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	300 CHE On Road Diesel		
Yard tractor	T276	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	803 CHE On Road Diesel		
Yard tractor	T277	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	645 CHE On Road Diesel		
Yard tractor	T280	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	289 CHE On Road Diesel		
Yard tractor	T282	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	360 CHE On Road Diesel		
Yard tractor	T283	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	356 CHE On Road Diesel		
Yard tractor	T285	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	1057 CHE On Road Diesel		
Yard tractor	T286	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	220 CHE On Road Diesel		
Yard tractor	T287	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	742 CHE On Road Diesel		
Yard tractor	T288	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	268 CHE On Road Diesel		
Yard tractor	T290	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	327 CHE On Road Diesel		
Yard tractor	T291	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	1565 CHE On Road Diesel		
Yard tractor	T292	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	66 CHE On Road Diesel		
Yard tractor	T293	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	1257 CHE On Road Diesel		
Yard tractor	T294	Kalmar	ISB200	Diesel	Cummins	ISB 200	2009	200	978 CHE On Road Diesel		
Yard tractor	T300	Kalmar		Diesel	Cummins	QSB6.7	2015	173	1344 CHE Diesel		
Yard tractor	T301	Kalmar		Diesel	Cummins	QSB6.7	2015	173	1103 CHE Diesel		
Yard tractor	T303	Kalmar		Diesel	Cummins	QSB6.7	2015	173	1027 CHE Diesel		
Yard tractor	T303	Kalmar		Diesel	Cummins	QSB6.7 QSB6.7	2015	173	1113 CHE Diesel		
Yard tractor	T304	Kalmar		Diesel	Cummins	QSB6.7	2015	173	1150 CHE Diesel		
Yard tractor	T305	Kalmar		Diesel	Cummins	QSB6.7 QSB6.7	2015	173	1134 CHE Diesel		
Yard tractor	T300	Kalmar		Diesel	Cummins	QSB6.7	2015	173	1322 CHE Diesel		
Yard tractor	T309	Kalmar		Diesel	Cummins	QSB6.7	2015	173	1212 CHE Diesel		



Port Equip Type	Equip ID	Equip Make 1		ngineTy	Engine Make	Engine Model	EngineY ear	HP	Annual	Category	DPF level 3	Blue Cat
Yard tractor	T310	Kalmar	•	esel	Cummins	QSB6.7	2015	173		CHE Diesel	DI I TEVEL J	Diue Cat
Yard tractor	T311	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T312	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T313	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T314	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T315	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T316	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T317	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T318	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T319	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T320	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T321	Kalmar		esel	Cummins	QSB6.7	2015	173		CHE Diesel		
Yard tractor	T322	Kalmar	Di	esel	Cummins	QSB6.7	2015	173	1258	CHE Diesel		
Yard tractor	T323	Kalmar	Di	esel	Cummins	QSB6.7	2015	173	1183	CHE Diesel		
Yard tractor	T324	Kalmar	Di	esel	Cummins	QSB6.7	2015	173	869	CHE Diesel		
Yard tractor	T325	Kalmar	Di	esel	Cummins	QSB6.7	2015	173	1289	CHE Diesel		
Yard tractor	T326	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	1248	CHE Diesel		
Yard tractor	T327	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	1933	CHE Diesel		
Yard tractor	T328	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	1732	CHE Diesel		
Yard tractor	T329	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2187	CHE Diesel		
Yard tractor	T330	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2199	CHE Diesel		
Yard tractor	T331	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2135	CHE Diesel		
Yard tractor	T332	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	1916	CHE Diesel		
Yard tractor	T333	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	1865	CHE Diesel		
Yard tractor	T334	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2233	CHE Diesel		
Yard tractor	T335	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2155	CHE Diesel		
Yard tractor	T336	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2091	CHE Diesel		
Yard tractor	T337	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2127	CHE Diesel		
Yard tractor	T338	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2363	CHE Diesel		
Yard tractor	T339	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	1618	CHE Diesel		
Yard tractor	T340	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	1996	CHE Diesel		
Yard tractor	T341	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2281	CHE Diesel		
Yard tractor	T342	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2176	CHE Diesel		
Yard tractor	T343	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2218	CHE Diesel		
Yard tractor	T344	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2354	CHE Diesel		
Yard tractor	T345	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2135	CHE Diesel		
Yard tractor	T346	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2252	CHE Diesel		
Yard tractor	T347	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2155	CHE Diesel		
Yard tractor	T348	Kalmar	Di	esel	Cummins	QSB6.7	2018	173	2239	CHE Diesel		



Dont Forein T	Ea:- 1D			gineTy		Engine		ngineY	HD	Annual	Catago	DDE 11 2	Plus Car
Port Equip Type	Equip ID	Equip Make	•	col	Engine Make	Model QSB6.7	ea	ır 2018	HP 173		Category CHE Diesel	DPF level 3	Blue Cat
Yard tractor	T349	Kalmar	Die		Cummins								
Yard tractor	T350	Kalmar	Die		Cummins	QSB6.7		2018	173		CHE Diesel		
Yard tractor	T351	Kalmar	Die		Cummins	QSB6.7		2018	173		CHE Diesel		
Yard tractor	T-400	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-401	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-402	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-403	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-404	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-405	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-406	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-407	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-408	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-409	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-410	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-411	Kalmar	Die	sel	Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-412	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	33	CHE Diesel		
Yard tractor	T-413	Kalmar	Die	sel	Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-414	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	85	CHE Diesel		
Yard tractor	T-415	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	99	CHE Diesel		
Yard tractor	T-416	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	65	CHE Diesel		
Yard tractor	T-417	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	620	CHE Diesel		
Yard tractor	T-418	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	64	CHE Diesel		
Yard tractor	T-419	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	0	CHE Diesel		
Yard tractor	T-420	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	76	CHE Diesel		
Yard tractor	T-421	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	75	CHE Diesel		
Yard tractor	T-422	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	581	CHE Diesel		
Yard tractor	T-423	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	4	CHE Diesel		
Yard tractor	T-424	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	152	CHE Diesel		
Yard tractor	T-425	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	191	CHE Diesel		
Yard tractor	T-426	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	0	CHE Diesel		
Yard tractor	T-427	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	64	CHE Diesel		
Yard tractor	T-428	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	76	CHE Diesel		
Yard tractor	T-429	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-430	Kalmar	Die	sel	Cummins	QSB6.7		2019	173	32	CHE Diesel		
Yard tractor	T-431	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-432	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-433	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-434	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		
Yard tractor	T-435	Kalmar	Die		Cummins	QSB6.7		2019	173		CHE Diesel		



Yard tractor Yard tractor Yard tractor Yard tractor Yard tractor Yard tractor	Equip ID T-436 T-437 T-438 T-439	Equip Make Kalmar Kalmar	Model	pe Diesel	Engine Make Cummins		ear	HP	Hours Category	DPF level 3	Blue Cat
Yard tractor Yard tractor Yard tractor Yard tractor	T-437 T-438 T-439	Kalmar		Diesel	Limmins						
Yard tractor Yard tractor Yard tractor	T-438 T-439			D: 1		QSB6.7	2019	173	0 CHE Diesel		
Yard tractor Yard tractor	T-439	Kalmar		Diesel	Cummins	QSB6.7	2019	173	58 CHE Diesel		
Yard tractor				Diesel	Cummins	QSB6.7	2019	173	81 CHE Diesel		
		Kalmar		Diesel	Cummins	QSB6.7	2019	173	89 CHE Diesel		
Yard tractor	T-440	Kalmar		Diesel	Cummins	QSB6.7	2019	173	91 CHE Diesel		
	T-441	Kalmar		Diesel	Cummins	QSB6.7	2019	173	104 CHE Diesel		
	T-442	Kalmar		Diesel	Cummins	QSB6.7	2019	173	51 CHE Diesel		
	T-443	Kalmar		Diesel	Cummins	QSB6.7	2019	173	34 CHE Diesel		
	T-444	Kalmar		Diesel	Cummins	QSB6.7	2019	173	101 CHE Diesel		
Yard tractor	T-445	Kalmar		Diesel	Cummins	QSB6.7	2019	173	58 CHE Diesel		
Yard tractor	T-446	Kalmar		Diesel	Cummins	QSB6.7	2019	173	70 CHE Diesel		
Yard tractor	T-447	Kalmar		Diesel	Cummins	QSB6.7	2019	173	116 CHE Diesel		
Yard tractor	T-448	Kalmar		Diesel	Cummins	QSB6.7	2019	173	49 CHE Diesel		
Yard tractor	T-449	Kalmar		Diesel	Cummins	QSB6.7	2019	173	66 CHE Diesel		
Yard tractor	T-450	Kalmar		Diesel	Cummins	QSB6.7	2019	173	88 CHE Diesel		
Yard tractor	T-451	Kalmar		Diesel	Cummins	QSB6.7	2019	173	71 CHE Diesel		
Yard tractor	T-452	Kalmar		Diesel	Cummins	QSB6.7	2019	173	32 CHE Diesel		
Yard tractor	T-453	Kalmar		Diesel	Cummins	QSB6.7	2019	173	68 CHE Diesel		
Yard tractor	T-454	Kalmar		Diesel	Cummins	QSB6.7	2019	173	82 CHE Diesel		
Yard tractor	T-455	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-456	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-457	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-458	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-459	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-460	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-461	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-462	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-463	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-464	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-465	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	T-466	Kalmar		Diesel	Cummins	QSB6.7	2019	173	0 CHE Diesel		
Yard tractor	UTR001	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2665 CHE On Road Diese	I	
	UTR002	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	3218 CHE On Road Diese		
	UTR003	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	1996 CHE On Road Diese		
	UTR004	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2889 CHE On Road Diese		
	UTR005	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	3551 CHE On Road Diese		
	UTR006	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	833 CHE On Road Diese		
	UTR007	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	1870 CHE On Road Diese		
	UTR008	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2996 CHE On Road Diese		



Port Equip Type	Equip ID	Equip Make	Equip Model	EngineTy pe	Engine Make	Engine Model	EngineY ear	HP	Annual Hours Category	DPF level 3	Blue Cat
Yard tractor	UTR009	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	996 CHE On Road Diesel	DIT level 3	Diuc Cat
Yard tractor	UTR010	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	3162 CHE On Road Diesel		
Yard tractor	UTR011	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2200 CHE On Road Diesel		
Yard tractor	UTR012	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2903 CHE On Road Diesel		
Yard tractor	UTR013	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2759 CHE On Road Diesel		
Yard tractor	UTR014	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2448 CHE On Road Diesel		
Yard tractor	UTR015	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2146 CHE On Road Diesel		
Yard tractor	UTR016	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	1800 CHE On Road Diesel		
Yard tractor	UTR017	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	1598 CHE On Road Diesel		
Yard tractor	UTR018	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2983 CHE On Road Diesel		
Yard tractor	UTR019	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	1295 CHE On Road Diesel		
Yard tractor	UTR020	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	1552 CHE On Road Diesel		
Yard tractor	UTR021	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2330 CHE On Road Diesel		
Yard tractor	UTR022	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2069 CHE On Road Diesel		
Yard tractor	UTR023	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2842 CHE On Road Diesel		
Yard tractor	UTR024	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	1590 CHE On Road Diesel		
Yard tractor	UTR025	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	3224 CHE On Road Diesel		
Yard tractor	UTR026	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2611 CHE On Road Diesel		
Yard tractor	UTR027	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	1662 CHE On Road Diesel		
Yard tractor	UTR028	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2700 CHE On Road Diesel		
Yard tractor	UTR029	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2478 CHE On Road Diesel		
Yard tractor	UTR030	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	3699 CHE On Road Diesel		
Yard tractor	UTR031	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2827 CHE On Road Diesel		
Yard tractor	UTR032	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	4051 CHE On Road Diesel		
Yard tractor	UTR033	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2883 CHE On Road Diesel		
Yard tractor	UTR034	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	511 CHE On Road Diesel		
Yard tractor	UTR035	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	2423 CHE On Road Diesel		
Yard tractor	UTR036	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	913 CHE On Road Diesel		
Yard tractor	UTR037	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	1319 CHE On Road Diesel		
Yard tractor	UTR038	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	1235 CHE On Road Diesel		
Yard tractor	UTR039	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	891 CHE On Road Diesel		
Yard tractor	UTR040	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	625 CHE On Road Diesel		
Yard tractor	UTR041	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	364 CHE On Road Diesel		
Yard tractor	UTR042	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	175 CHE On Road Diesel		
Yard tractor	UTR043	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	183 CHE On Road Diesel		
Yard tractor	UTR044	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	167 CHE On Road Diesel		
Yard tractor	UTR045	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	67 CHE On Road Diesel		
Yard tractor	UTR046	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR047	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	15 CHE On Road Diesel		



n . F . 'T	E . 15	Б	Equip	EngineTy	E . 15.1	Engine	EngineY	IID	Annual	DDE1 12	DI C
Port Equip Type	Equip ID	Equip Make		pe	Engine Make		ear	HP	Hours Category	DPF level 3	Blue Cat
Yard tractor	UTR048	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR049	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	182 CHE On Road Diesel		
Yard tractor	UTR050	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR051	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR052	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR053	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR054	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR055	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR056	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR057	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR058	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR059	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR060	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	UTR061	Ottawa	YT-50	Diesel	Cummins	ISB6-720	2014	250	0 CHE On Road Diesel		
Yard tractor	YTW	Capacity	6BTA	Diesel	Cummins		2013	135	963 CHE Diesel		
Yard tractor	H-088	Dina		Gasoline	Chevy	454-FI	2011	335	1118 CHE Gasoline		
Yard tractor	H-089	Dina		Gasoline	Chevy	454-FI	2011	335	1320 CHE Gasoline		
Yard tractor	H-090	Dina		Gasoline	Chevy	454-FI	2011	335	1206 CHE Gasoline		
Yard tractor	H-091	Dina		Gasoline	Chevy	454-FI	2011	335	1057 CHE Gasoline		
Yard tractor	H-092	Dina		Gasoline	Chevy	454-FI	2011	335	1059 CHE Gasoline		
Yard tractor	H-093	Dina		Gasoline	Chevy	454-FI	2011	335	1017 CHE Gasoline		
Yard tractor	H-094	Dina		Gasoline	Chevy	454-FI	2011	335	1193 CHE Gasoline		
Yard tractor	H-095	Dina		Gasoline	Chevy	454-FI	2011	335	970 CHE Gasoline		
Yard tractor	H-096	Dina		Gasoline	Chevy	454-FI	2011	335	1199 CHE Gasoline		
Yard tractor	H-097	Dina		Gasoline	Chevy	454-FI	2011	335	1177 CHE Gasoline		
Yard tractor	H-098	Dina		Gasoline	Chevy	454-FI	2011	335	1239 CHE Gasoline		
Yard tractor	H-099	Dina		Gasoline	Chevy	454-FI	2011	335	1135 CHE Gasoline		
Yard tractor	H-100	Dina		Gasoline	Chevy	454-FI	2011	335	1251 CHE Gasoline		
Yard tractor	H-101	Dina		Gasoline	Chevy	454-FI	2011	335	907 CHE Gasoline		
Yard tractor	H-102	Dina		Gasoline	Chevy	454-FI	2011	335	1057 CHE Gasoline		
Yard tractor	H-104	Dina		Gasoline	Chevy	454-FI	2011	335	935 CHE Gasoline		
Yard tractor	H-105	Dina		Gasoline	Chevy	454-FI	2011	335	1167 CHE Gasoline		
Yard tractor	H-521	Dina		Gasoline	Chevy	454-FI	2011	335	296 CHE Gasoline		
Yard tractor	H-522	Dina		Gasoline	Chevy	454-FI	2011	335	393 CHE Gasoline		
Yard tractor	H-603	Dina		Gasoline	Chevy	454-FI	2011	335	666 CHE Gasoline		
Yard tractor	H-604	Dina		Gasoline	Chevy	454-FI	2011	335	392 CHE Gasoline		
Yard tractor	H-605	Dina		Gasoline	Chevy	454-FI	2011	335	976 CHE Gasoline		
Yard tractor	H-606	Dina		Gasoline	Chevy	454-FI	2011	335	724 CHE Gasoline		
					•						
Yard tractor Yard tractor	H-608	Dina Dina		Gasoline	Chevy	454-FI 454-FI	2011	335	959 CHE Gasoline		



Dont Farrin T	E:- ID	Equip Mal	Equip	EngineTy	Engine Mel	Engine	EngineY	LID	Annual Catagory	DDE 11.2	Dina Car
Port Equip Type Yard tractor	Equip ID H-609	Equip Make Dina	Model	pe Gasoline	Engine Make Chevy	Model 454-FI	ear 2011	HP 335	Hours Category 846 CHE Gasoline	DPF level 3	Blue Cat
Yard tractor	H-610	Dina		Gasoline	Chevy	454-FI	2011	335	1083 CHE Gasoline		
					-		2011	335	639 CHE Gasoline		
Yard tractor	H-6101	Dina		Gasoline	Chevy	454-FI			1000 CHE Gasoline		
Yard tractor	H-6103 H-6104	Dina		Gasoline	Chevy	454-FI	2011	335	645 CHE Gasoline		
Yard tractor		Dina		Gasoline	Chevy	454-FI	2011	335	883 CHE Gasoline		
Yard tractor	H-6106	Dina		Gasoline	Chevy	454-FI	2011	335			
Yard tractor	H-6107	Dina		Gasoline	Chevy	454-FI	2011	335	956 CHE Gasoline		
Yard tractor	H-6108	Dina		Gasoline	Chevy	454-FI	2011	335	945 CHE Gasoline		
Yard tractor	H-611	Dina		Gasoline	Chevy	454-FI	2011	335	688 CHE Gasoline		
Yard tractor	H-6111	Dina		Gasoline	Chevy	454-FI	2011	335	1121 CHE Gasoline		
Yard tractor	H6113	Dina		Gasoline	Chevy		2019	335	934 CHE Gasoline		
Yard tractor	H6114	Dina		Gasoline	Chevy		2019	335	840 CHE Gasoline		
Yard tractor	H6115	Dina		Gasoline	Chevy		2019	335	474 CHE Gasoline		
Yard tractor	H6116	Dina		Gasoline	Chevy		2019	335	943 CHE Gasoline		
Yard tractor	H6117	Dina		Gasoline	Chevy		2019	335	916 CHE Gasoline		
Yard tractor	H6118	Dina		Gasoline	Chevy		2019	335	688 CHE Gasoline		
Yard tractor	H6119	Dina		Gasoline	Chevy		2019	335	961 CHE Gasoline		
Yard tractor	H-612	Dina		Gasoline	Chevy	454-FI	2011	335	934 CHE Gasoline		
Yard tractor	H6120	Dina		Gasoline	Chevy		2019	335	688 CHE Gasoline		
Yard tractor	H6121	Dina		Gasoline	Chevy		2019	335	913 CHE Gasoline		
Yard tractor	H6122	Dina		Gasoline	Chevy		2019	335	1102 CHE Gasoline		
Yard tractor	H6123	Dina		Gasoline	Chevy		2019	335	876 CHE Gasoline		
Yard tractor	H6124	Dina		Gasoline	Chevy		2019	335	782 CHE Gasoline		
Yard tractor	H6125	Dina		Gasoline	Chevy		2019	335	914 CHE Gasoline		
Yard tractor	H6126	Dina		Gasoline	Chevy		2019	335	772 CHE Gasoline		
Yard tractor	H6127	Dina		Gasoline	Chevy		2019	335	903 CHE Gasoline		
Yard tractor	H6128	Dina		Gasoline	Chevy		2019	335	555 CHE Gasoline		
Yard tractor	H6129	Dina		Gasoline	Chevy		2019	335	916 CHE Gasoline		
Yard tractor	H6130	Dina		Gasoline	Chevy		2019	335	681 CHE Gasoline		
Yard tractor	H6131	Dina		Gasoline	Chevy		2019	335	686 CHE Gasoline		
Yard tractor	H6132	Dina		Gasoline	Chevy		2019	335	410 CHE Gasoline		
Yard tractor	H6133	Dina		Gasoline	Chevy		2019	335	353 CHE Gasoline		
Yard tractor	H6134	Dina		Gasoline	Chevy		2019	335	486 CHE Gasoline		
Yard tractor	H6135	Dina		Gasoline	Chevy		2019	335	104 CHE Gasoline		
Yard tractor	H6136	Dina		Gasoline	Chevy		2019	335	0 CHE Gasoline		
Yard tractor	H6137	Dina		Gasoline	Chevy		2019	335	186 CHE Gasoline		
Yard tractor	H6138	Dina		Gasoline	Chevy		2019	335	82 CHE Gasoline		
Yard tractor	H6139	Dina		Gasoline	Chevy		2019	335	85 CHE Gasoline		
Yard tractor	H-614	Dina		Gasoline	Chevy	454-FI	2011	335	936 CHE Gasoline		



Don't Family To	En in ID	Essis Mal		EngineTy	Engine M.1	Engine		ngineY	IID	Annual	Catanan	Di	DE 11-2	Disc Con
Port Equip Type	Equip ID	Equip Make	•	e Casalina	Engine Make	Model	ea		HP		Category	וט	PF level 3	Blue Cat
Yard tractor	H6140	Dina		Gasoline	Chevy	4E4 FI		2019	335		CHE Gasoline CHE Gasoline			
Yard tractor	H-619	Dina		Gasoline	Chevy	454-FI		2011	335					
Yard tractor	H-620	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-627	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-628	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-629	Dina		Sasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-630	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-631	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-632	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-633	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-634	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-635	Dina	(Gasoline	Chevy	454-FI		2011	335	1060	CHE Gasoline			
Yard tractor	H-636	Dina	(Gasoline	Chevy	454-FI		2011	335	1371	CHE Gasoline			
Yard tractor	H-639	Dina	(Gasoline	Chevy	454-FI		2011	335	1175	CHE Gasoline			
Yard tractor	H-640	Dina	C	Sasoline	Chevy	454-FI		2011	335	1167	CHE Gasoline			
Yard tractor	H-643	Dina	C	Sasoline	Chevy	454-FI		2011	335	1755	CHE Gasoline			
Yard tractor	H-644	Dina	C	Gasoline	Chevy	454-FI		2011	335	1175	CHE Gasoline			
Yard tractor	H-645	Dina	C	Gasoline	Chevy	454-FI		2011	335	1119	CHE Gasoline			
Yard tractor	H-646	Dina	C	Gasoline	Chevy	454-FI		2011	335	946	CHE Gasoline			
Yard tractor	H-649	Dina	C	Gasoline	Chevy	454-FI		2011	335	1096	CHE Gasoline			
Yard tractor	H-650	Dina	C	Gasoline	Chevy	454-FI		2011	335	1257	CHE Gasoline			
Yard tractor	H-653	Dina	(asoline	Chevy	454-FI		2011	335	954	CHE Gasoline			
Yard tractor	H-654	Dina	(Sasoline	Chevy	454-FI		2011	335	1287	CHE Gasoline			
Yard tractor	H-655	Dina	(Sasoline	Chevy	454-FI		2011	335	1098	CHE Gasoline			
Yard tractor	H-656	Dina	C	Sasoline	Chevy	454-FI		2011	335	1365	CHE Gasoline			
Yard tractor	H-657	Dina	C	Sasoline	Chevy	454-FI		2011	335	881	CHE Gasoline			
Yard tractor	H-658	Dina	C	Sasoline	Chevy	454-FI		2011	335	997	CHE Gasoline			
Yard tractor	H-659	Dina	C	Sasoline	Chevy	454-FI		2011	335	948	CHE Gasoline			
Yard tractor	H-660	Dina	C	Sasoline	Chevy	454-FI		2011	335	947	CHE Gasoline			
Yard tractor	H-661	Dina	C	asoline	Chevy	454-FI		2011	335	1818	CHE Gasoline			
Yard tractor	H-662	Dina		asoline	Chevy	454-FI		2011	335	816	CHE Gasoline			
Yard tractor	H-664	Dina		asoline	Chevy	454-FI		2011	335	1457	CHE Gasoline			
Yard tractor	H-665	Dina		Sasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-666	Dina		Sasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-667	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-668	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-669	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
Yard tractor	H-671	Dina		Gasoline	Chevy	454-FI		2011	335		CHE Gasoline			
	5/1	J.1114		20011110	Chevy	454-FI		2011	555		CHE Gasoline			



Dout Favin True	Equip ID	Fauin Malas	Equip Model	EngineTy	Engine Mala	Engine Model	EngineY	LID	Annual	Catagory	DDE lossel 2	Plus Cat
Port Equip Type Yard tractor	Equip ID H-695	Equip Make	Model	pe Gasoline	Engine Make Chevy	454-FI	ear 2011	HP 335		Category CHE Gasoline	DPF level 3	Blue Cat
Yard tractor	H-696	Dina		Gasoline	Chevy	454-FI	2011	335		CHE Gasoline		
Yard tractor	H-699	Dina		Gasoline	Chevy	454-FI	2011	335		CHE Gasoline		
Yard tractor	H7112	Dina		Gasoline	Chevy	454-FI	2011	335		CHE Gasoline		
Yard tractor	H7112	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7114	Dina		Gasoline	Chevy	454-FI 454-FI	2018	335		CHE Gasoline		
Yard tractor	H7114	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
	H7115			Gasoline	•	454-FI 454-FI				CHE Gasoline		
Yard tractor		Dina			Chevy		2018	335				
Yard tractor	H7117	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline CHE Gasoline		
Yard tractor	H7118	Dina		Gasoline	Chevy	454-FI	2018	335				
Yard tractor	H7119	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7120	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7121	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7122	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7123	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7124	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7125	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7126	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7127	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7128	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7129	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7130	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7131	Dina		Gasoline	Chevy	454-FI	2018	335		CHE Gasoline		
Yard tractor	H7132	Dina		Gasoline	Chevy	454-FI	2019	335		CHE Gasoline		
Yard tractor	H7133	Dina		Gasoline	Chevy	454-FI	2019	335		CHE Gasoline		
Yard tractor	H7134	Dina		Gasoline	Chevy	454-FI	2019	335		CHE Gasoline		
Yard tractor	H7135	Dina		Gasoline	Chevy	454-FI	2019	335		CHE Gasoline		
Yard tractor	H7136	Dina		Gasoline	Chevy	454-FI	2019	335		CHE Gasoline		
Yard tractor	H7137	Dina		Gasoline	Chevy	454-FI	2019	335		CHE Gasoline		
Yard tractor	H7138	Dina		Gasoline	Chevy	454-FI	2019	335		CHE Gasoline		
Yard tractor	H7139	Dina		Gasoline	Chevy	454-FI	2019	335		CHE Gasoline		
Yard tractor	H7140	Dina		Gasoline	Chevy	454-FI	2019	335		CHE Gasoline		
Yard tractor	T142	Ottawa	Commando		Ford V10		2009	173		CHE Propane		
Yard tractor	T146	Ottawa	Commando		Ford V10		2009	173	98	CHE Propane		
Yard tractor				Electric						CHE Electric		