



**FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO.**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
Process 17: ELECTRIC GENERATION					
System 1: EMERGENCY INTERNAL COMBUSTION ENGINES					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE WATER, ENG-80, DIESEL FUEL, JOHN DEERE, 6 CYLINDERS, MODEL 6135HFC48B, SERIAL NO. RG6135L014602, WITH TURBOCHARGER AND AFTERCOOLER, 460 kW (617 BHP) A/N: 520668 WITH CARB-VERIFIED DIESEL PM FILTER	Dxxx		NOX: PROCESS UNIT; SOX: PROCESS UNIT	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005] CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002]; PM10: 0.015 GRAM/BHP-HR (5) [RULE 1470, 3-4-2005]	B61.6, B163.x, C1.xx, D12.13, H23.36, H23.xx, K67.13
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE WATER, ENG-81, DIESEL FUEL, JOHN DEERE, 6 CYLINDERS, MODEL 6135HFC48B, SERIAL NO. RG6135L018321, WITH TURBOCHARGER AND AFTERCOOLER, 460 kW (617 BHP) A/N: 520669 WITH CARB-VERIFIED DIESEL PM FILTER	Dxxx		NOX: PROCESS UNIT; SOX: PROCESS UNIT	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005] CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002]; NOX + ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002]; PM10: 0.015 GRAM/BHP-HR (5) [RULE 1470, 3-4-2005]	B61.6, B163.x, C1.xx, D12.13, H23.36, H23.xx, K67.13
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE WATER, ENG-83, DIESEL FUEL, JOHN DEERE, 6 CYLINDERS, MODEL 6135HFC48B, SERIAL NO. RG6135L018323, WITH TURBOCHARGER AND AFTERCOOLER, 460 kW (617 BHP) A/N: 520670	Dxxx		NOX: PROCESS UNIT; SOX: PROCESS UNIT	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005] CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002]; NOX +	B61.6, B163.x, C1.xx, D12.13, H23.36, H23.xx, K67.13



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<u>WITH CARB-VERIFIED DIESEL PM FILTER</u>				<u>ROG: 3 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002]; PM10: 0.015 GRAM/BHP-HR (5) [RULE 1470, 3-4-2005]</u>	
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, 6 CYLINDERS, DIESEL FUEL, DETROIT DIESEL, MODEL DDFP L6FA, SERIAL NO. 6VF 213457, WITH AFTERCOOLER, TURBOCHARGER, 287 BHP A/N 484513	D1123		NOX: PROCESS UNIT; SOX: PROCESS UNIT	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.2, C1.17, C1.44, C1.48, D12.2, K67.1
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE WATER, 6 CYLINDERS, DIESEL FUEL, JOHN DEERE, MODEL 6125HF070, SERIAL NO. RG6125H08, WITH AFTERCOOLER, TURBOCHARGER, 375 BHP A/N: 484509	D1659		NOX: PROCESS UNIT; SOX: PROCESS UNIT	CO: 2.6 GRAM/BHP HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 4.9 GRAM/BHP HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002]; PM (9) [RULE 404, 2-7-1986]; PM10: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002]; SOX: 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005]	B61.6, C1.43, C1.44, C1.45, D12.13, H23.36, K67.13

CONDITIONS

B61.2 The operator shall only use diesel fuel containing the following specified compounds:

Compound	weight percent
Sulfur compounds less than	0.05

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : D713, D714, D1100, D1101, D1102, D1103, D1104, D1123]

B61.6 The operator shall not use diesel fuel containing the following specified compounds :



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Compound	ppm by weight
Sulfur less than or equal to <u>greater than</u>	15

[RULE 1470, 6-1-2007 ; **RULE 431.2, 5-4-1990** ; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D1617, D1618, D1645, D1646, ~~D1659~~, Dxxx, Dxxx, Dxxx]

Note : 'less than or equal to' was inadvertently used instead of 'greater than'. This error has been corrected and will be reflected when the permit(s) under this evaluation is issued.

B163.x The operator shall only use this equipment subject to the restrictions containing the following:

This engine shall not be operated unless its exhaust is vented to a CARB verified diesel particulate filter system which 1) has a control efficiency of 85 percent or greater ; 2) is in full operation ; and 3) is in good operating condition at all times.

The operator shall install and maintain an operational data logging and alarm system for the diesel particulate filter system prior to putting the engine in service. The system shall be programmed to interface with the engine control system to automatically shutdown the engine or switch it to power de-rating mode whenever the backpressure of the diesel particulate filter exceeds the maximum backpressure setting specified by the filter manufacturer.

The operator shall regenerate the diesel particulate filter whenever a warning signal is received from the alarm system indicating the backpressure of the filter has exceeded the maximum backpressure setting specified by the filter manufacturer. To achieve filter regeneration, the operator shall run the engine until the exhaust temperature is at or exceeds the temperature specified by the filter manufacturer and the backpressure monitoring system indicates a normal backpressure reading.

The temperature of the engine exhaust gas at the inlet to the diesel particulate filter system shall be maintained in accordance with the temperature specified by the filter manufacturer.

The operator shall maintain records of :

- A. Particulate filter inspections, replacements and regenerations ;
- B. Data retrieve from the data logging system that include the backpressure, exhaust gas temperature and the date and time of the readings.

The operator shall maintain these records for a minimum of five years and make them available to District personnel upon request.

[RULE 1470, 6-1-2007]



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The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : Dxxx, Dxxx, Dxxx]

C1.17 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

[RULE 1110.2, 2-1-2008; **RULE 1304(c)-Offset Exemption, 6-14-1996**; RULE 1470, 6-1-2007]

[Devices subject to this condition: D713, D714, D1100, D1101, D1102, D1103, D1104, ~~D1123~~]

C1.43 The operator shall limit the maintenance and testing to no more than 50 hour(s) in any one year.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[**RULE 1303(a)(1)-BACT, 5-10-1996** ; RULE 1303(a)(1)-BACT, 12-6-2002 ; **RULE 1303(b)(2)-Offset, 5-10-1996** ; RULE 1303(b)(2)-Offset, 12-6-2002 ; RULE 1470, 6-1-2007]

[Devices subject to this condition : D1617, D1618, D1645, D1646, ~~D1659~~]

C1.44 The operator shall limit the maintenance and testing to no more than 5 hour(s) in any one month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[**RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition: ~~D1123~~, D1617, D1618, D1645, D1646, ~~D1659~~]

C1.45 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

[RULE 1110.2, 2-1-2008 ; **RULE 1303(b)(2)-Offset, 5-10-1996** ; RULE 1303(b)(2)-Offset, 12-6-2002 ; RULE 1470, 6-1-2007]

[Devices subject to this condition : D1617, D1618, D1645, D1646, ~~D1659~~]

~~C1.48 The operator shall limit the maintenance and testing to no more than 34 hour(s) in any one year.~~

~~The purpose of this condition is to ensure compliance with requirements of National Fire Protection Association (NFPA) 25 standards.~~

~~The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.~~



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The operator shall comply with the terms and conditions set forth below:

[~~RULE 1470, 6-1-2007~~]

[~~Devices subject to this condition: D1123~~]

C1.xx The operator shall limit the operating time to no more than 200 hour(s) in any one year.

This engine shall not be operated more than 200 hours in any one year, which includes no more than 50 hours in any one year and no more than 4.2 hours in any one month for maintenance and testing.

[~~**RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007; RULE 2012, 5-6-2005**~~]

[~~Devices subject to this condition : Dxxx, Dxxx, Dxxx~~]

D12.2 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[~~**RULE 1304(c)-Offset Exemption, 6-14-1996 ; RULE 2012, 5-6-2005**~~]

[~~Devices subject to this condition : D713, D714, D1100, D1101, D1102, D1103, D1104, D1123~~]

D12.13 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[~~RULE 1110.2, 2-1-2008 ; RULE 1470, 6-1-2007 ; **RULE 2012, 5-6-2005**~~]

[~~Devices subject to this condition : D1617, D1618, D1645, D1646, D1659, Dxxx, Dxxx, Dxxx~~]

H23.36 This equipment is subject to the applicable requirements of the following rules or regulations:

<u>Contaminant</u>	<u>Rule</u>	<u>Rule/Subpart</u>
PM	District Rule	1470

[~~RULE 1470, 6-1-2007~~]

[~~Devices subject to this condition: D1617, D1618, D1645, D1646, D1659, Dxxx, Dxxx, Dxxx~~]

H23.xx This equipment is subject to the applicable requirements of the following rules or regulations :

<u>Contaminant</u>	<u>Rule</u>	<u>Rule/Subpart</u>
CO	40CFR 60, SUBPART	III



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<u>PM</u>	<u>40CFR 60, SUBPART</u>	<u>III</u>
<u>Non-Methane Hydrocarbon</u>	<u>40CFR 60, SUBPART</u>	<u>III</u>
<u>NOX</u>	<u>40CFR 60, SUBPART</u>	<u>III</u>

[40CFR 60 Subpart III, 7-11-2006]

[Devices subject to this condition : Dxxx, Dxxx, Dxxx]

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The date of operation, the elapsed time in hours, and the reason for operation.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition: D713, D714, D1100, D1101, D1102, D1103, D1104, ~~D4423~~]

K67.13 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

An engine operating log shall be maintained which on a monthly basis shall include manual and automatic operation and shall list all engine operations in each of the following areas:

- A. Emergency use hours of operation
- B. Maintenance and testing hours
- C. Other operating hours (describe the reason for operation)

In addition, each time the engine is ~~started~~ manually started, the log shall include the date of operation, the specific reason for operation and the timer reading in hours and tenths of hours at the beginning and end of operation. The log shall be kept for a minimum of ~~three~~ five calendar years prior to the current year and made available to ~~the~~ District personnel upon request. The total hours of operation and the total hours of operation for maintenance and testing for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.

[RULE 1110.2, 2-1-2008; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1470, 6-1-2007]

[Devices subject to this condition: D1617, D1618, D1645, D1646, ~~D4659~~, Dxxx, Dxxx, Dxxx]