MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

INACTIVE

M004716

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: NOVEMBER 2009

OWNER OF OPERATOR (Co.#84)

NTC - Public Works
Bldg 602, 5th Street
Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac.#589)

NTC Training Mission
Bldg. 602, 5th street
Fort Irwin, CA 923105085

Description:
DIESEL IC ENGINE, BACKUP GENERATOR (HIGH GAIN MTN) consisting of: Year of manufacture - 1993

One John Deere, Diesel fired internal combustion engine Model No. 4039TF001 and Serial No. T04039T406930, producing 102 bhp with 6 cylinders at rpm while consuming a maximum of 4.0 gal/hr. This equipment powers a Coleman Generator Model No. CJT460SQ and Serial No. 12931548, rated at 60 kw.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	2.39	gm/bhp-hr
HC	0.24	gm/bhp-hr
NOx	10.87	gm/bhp-hr
PM10	1.0	gm/bhp-hr
SOx	0.2	gm/bhp-hr
VOC	0.24	gm/bhp-hr

CONDITIONS:

1. This engine shall not be operated simultaneously with the engine described in District permit B004717, except for one (1) hour to switch engines, and this engine and the engine with District permit B004717 shall not be operated for more than 4380 hours per

Fee Schedule: 10 (1b) | Rating: 102 bhp | SIC: 9711 | SCC: 20100102 | Location/UTM(Km): 529E/3902N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NTC - Public Works
Attn: Air Resources Manager

Fort Irwin, CA 92310

By: **COPY**
Brad Poiriez
Executive Director

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calendar year, combined.

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

3. A non-resettable four-digit (9,999) hour meter or timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

4. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of three (3) years, with records keep on-site of two (2) years and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
a. Date of each use and duration of each use (in hours);
b. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
c. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

5. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15) on a weight per weight basis per CARB Diesel or equivalent requirements.. (17 CCR \S93115(e)(1)(A))

6. The Diesel Particulate Matter emission from this diesel ICE must comply with one of the three following options by the appropriate compliance date in Condition 8:
Option 1. 85% reduction in emissions from baseline levels. (17 CCR \S93115(e)(1)(D)1.a.)
Option 2. 0.01 g/bhp hr. (17 CCR \S93115(e)(1)(D)1.b.)
Option 3. 30% reduction in emissions from baseline levels by 1/1/2006 and 0.01 g/bhp hr by 7/1/2011 (17 CCR \S93115(e)(1)(D)1.c.)

7. The hydrocarbon (HC), oxides of nitrogen (NOX), non-methane hydrocarbons plus NOX (NMHC+NOx) and carbon monoxide (CO) emissions from this diesel ICE must comply with one of the three following options by the appropriate compliance date in Condition 8:
Option 1. Use verified emission control strategy. (17 CCR \S93115(e)(1)(D)2. and see 13 CCR \S\S2700-2710 for procedure).
Option 2. Emissions standards for off-road engines of the same model year and rated power as specified in 13 CCR \S2423 or 'Tier 1' standards if no such standards exist. (17 CCR \S93115(e)(2)(D)2.a.)
Option 3. No more than 10% increase in HC or NOx from baseline or no increase in NMHC+NOx from baseline AND no more than 10% increase in CO from baseline. (17 CCR \S93115(e)(2)(D)2.a.)

8. Owner/Operators of 4 or more diesel fueled ICEs within the District must comply with applicable requirements with the following percentage of engines by the following dates:
Pre 1989 - 1989 model year engines:
50% of engines comply by 1/1/2007
70% of engines comply by 1/1/2008
100% of engines comply by 1/1/2009
1990 - 1995 model year engines:
30% of engines comply by 1/1/2007
60% of engines comply by 1/1/2008
100% of engines comply by 1/1/2009
1996 - 2004 model year engines:
50% of engines comply by 1/1/2008
100% of engines comply by 1/1/2009
[Note: 2005 engines are considered 'new'. (17 CCR \S193115(g)(2))]

9. The owner/operate must submit the required control strategy to District for compliance with emissions limitations 6 months prior to the appropriate compliance date(s) in Condition 8. *. (17 CCR \S93115(e)(4)(A)4.)

10. The owner/operate must submit the required emissions data to District prior to appropriate compliance date(s) in Condition 8 for the engine. (17 CCR \S93115(e)(4)(D))

11. The exhaust from this engine shall be vented through a Diesel Particulate Filter (DPF) manufactured by Johnson Matthey, type 'CTR', Model No. UNK, Serial No UNK per ARB Executive Order DE-05-011. This unit must be operated per the condition in Table 1 of the Executive Order, which are as follows:
a. The exhaust gas temperature must be above 240 deg C for 40% of the duty cycle,
b. Engine shall not be idled for more than 720 consecutive minutes,
c. The DPF must be regenerated after 24 cold starts with 30 minutes of idle time per session,
d. Maximum operating hours before cleaning is 5,000 hours.
Title 17 CCR 93115(e)(2)(D)

12. If this DPF has not be verified for this engine the exhaust for the engine must be source tested per a District approved protocol and Title 17 CCR 93115(h) & (i) with 90 days of the commence of operations, unless waved in writing by the District.
Title 17 CCR 93115(e)(2)(D)

13. This unit is subject to the requirements of the Airborne Toxic Control Measure For Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower and Greater (Title 17 CCR 93116). In the event of conflict between these conditions and the ATCM, the more stringent shall govern.

14. Current this unit is exempt per Title 17 CCR 93115(c)(8) from parts of this ATCM because the unit is used from military training as Tactical Support Equipment (TSE). As long as this exemption is in effect this unit must only comply with condition 1, 2, 3, 4, 5, 11, 13 and 14. If this unit no longer meets this exemption it must comply with all conditions with 180 days of lose of the exemption. The MDAQMD must be notified immediately upon lost of this exemption.