



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

INACTIVE

B013416

Inactive type Permit has no description information.

EXPIRES LAST DAY OF: JUNE 2020

OWNER OF OPERATOR (Co.#2387)

Cannable Organics, Inc.
6125 Washington Blvd, Suite 300
Culver City, CA 90232

EQUIPMENT LOCATION (Fac.#3771)

Cannable Organics, Inc.
9938 Rancho Road
Adelanto, CA 92301

Description:

NATURAL GAS IC ENGINE, GENERATOR (CANNABIS) consisting of: Year of Manufacture 2014. Engine is equipped with factory installed NSCR. NSCR manufactured by Clean Emissions, Model IC-7-400. This is not an EPA certified engine nor does the engine meet Rule 1160 emission standards without an emissions control device installed. Stack Data; Ht.: 8.7 ft Diam.: 0.33 ft Temp.: 880 F Flow: 1200 ACFM

One International Harvester, NG fired internal combustion engine Model No. 0-1466-TA and Serial No. 14-001503, Four-Stroke Rich Burn, Inter Cooled, Turbo Charged, Three-Way Catalyst (also NSCR), producing 210 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 1.5 MMBtu/hr. This equipment powers a Stamford Generator Model No. Apex S2 and Serial No. TBD, rated at 125 kW.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.0	gm/bhp-hr
NOx	0.5	gm/bhp-hr
PM10	0.03	gm/bhp-hr
PM2.5	0.03	gm/bhp-hr
SOx	0.002	gm/bhp-hr
VOC	0.5	gm/bhp-hr

CONDITIONS:

1. This stationary, spark-ignited, internal combustion engine and its associated control device (Three-Way Catalyst) and air/fuel ratio controller shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment

Fee Schedule: 1 (c) Rating: 210 bhp SIC: 2833 SCC: 20100202 Location/UTM(Km): 459E/3825N

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.

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By: **COPY**
Brad Poiriez
Air Pollution Control Officer

shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, subpart 60.4243;
District Rule 1302]

2.This engine is subject to the requirements of the New Source Performance Standards (NSPS) for Stationary Spark Ignition IC Engines (40 CFR 60, Subpart JJJJ) and District Rule 1160. In the event of conflict between these conditions and the aforementioned rules/regulations, the more stringent requirements shall govern.
[District Rule 1302]

3.This unit shall only be fired on PUC regulated Pipeline quality natural gas fuel.
[40 CFR 60.4243, District Rules 431 and 1302]

4.A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[40 CFR 60.4237, District Rule 1160(E)(1)(b)]

5.This engine shall not be operated unless all of the following engine systems are properly functioning:

- a. Air-to-Fuel Ratio Controller (AFRC)
- b. Oxygen Sensor
- c. Non-Selective Catalytic Reduction

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician or as allowed with prior APCO written permission.

[District Rule 1302]

6.The Air-to-Fuel Ratio Controller (AFRC) shall be used in conjunction with the control device, and shall be maintained and operated appropriately to ensure proper operation of the engine and control device to minimize emissions at all times.
[40 CFR 60.4243]

7.This engine shall meet the following emission standards. // Pollutant // g/bhp-hr

NO_x (as NO₂) // 0.5

CO // 1.0

VOC (as CH₄) // 0.5

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[District Rule 1302; District Rule 1160; 40 CFR 63 Subpart JJJJ Table 1]

8.This engine must be source tested for NO_x, VOC, CO, and O₂ within 180 days of startup and at least once in every 12 month period to verify compliance with the emission limits in Condition 7. The owner/operator must carry out the testing in accordance with the test procedures of 40 CFR 60.4244 and/or District Rule 1160. If the testing shows compliance with these limits, the testing may be extended to once every 24 months. Failure of a compliance test or failure to complete the compliance test within the required frequency resets the compliance test frequency to at least once in every 12 month period.

The MDAQMD shall be notified in writing at least ten days prior to the compliance test date. A compliance test shall be performed in accord with an MDAQMD-approved test plan or protocol. The MDAQMD shall be provided a written compliance test plan or protocol at least thirty days prior to the test date. Compliance tests shall be performed, and compliance test reports shall be prepared, in accordance with the MDAQMD Compliance Test Procedural Manual (available at the MDAQMD website www.mdaqmd.ca.gov). Compliance test reports shall be submitted to the MDAQMD and EPA (into EPA WebFire database via ERT) not later than 45 days after the compliance test date.

Any written documentation (including but not limited to notification, test plan/protocol and test reports) may be submitted in hard copy form, by facsimile, or by email to reporting@mdaqmd.ca.gov (all digital attachments shall be in pdf document format).

[District Rule 1160; 40 CFR 60.4243;40 CFR 60.4244;]

9.This engine must be inspected at least once each quarter or after every 2,000 hours of operation, whichever is more frequent. An inspection includes any testing, maintenance, and/or other procedures that ensure the engine is operated in strict accordance with the manufacturer's specifications and in continual compliance with the provisions of District Rule 1160. Records of such inspections must include the following information as a minimum:

- a. Inspection Date;
 - b. Records of testing, as applicable; and
 - c. Records of maintenance.
- [District Rule 1160(E)(1)(a)]

10. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) 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. Daily check of the difference of the exhaust temperatures at the inlet and outlet of the catalyst (changes in the temperature difference can indicate changes in the effectiveness of the catalyst);
 - b. Daily check for engine alarms;
 - c. Quarterly fuel use (in cubic feet or therms) and quarterly hours of operation, on a calendar quarter basis;
 - d. The date and a summary of any emissions corrective maintenance taken;
 - e. Records of all maintenance and repair actions performed on the engine, the AFRC, and the catalytic converter;
 - f. Results of all engine source tests as required in Condition 8; and
 - g. Results of all engine inspections as required in Condition 9.
- 40 CFR 60.4245, 40 CFR 1048, District Rule 1160]

11. A temperature gauge shall be installed and maintained at the inlet and outlet of the three-way catalyst.
[District Rules 204 and 1302]

12. The maximum allowed exhaust temperature at the catalyst inlet is 1089 degrees Fahrenheit (DCL specification).
[District Rule 1160]

13. Engine control systems, such as air-to-fuel ratio controllers, shall have a malfunction indicator light and audible alarm. Owner/operator shall have written procedures for responding to emission control malfunctions.
[District Rule 1302; District Rule 1160;

14. In the event that the Three-Way Catalytic Converter is replaced, the new (replacement) Catalytic Converter must be of the same Manufacturer and model designation and it must be installed by Factory Certified personnel to avoid follow-on source testing.

If the Manufacturer or the Model designation of the new (replacement) catalytic converter is not identical to the original catalytic converter or if the unit is not installed by Factory Certified personnel, then the engine shall be source tested in accordance with the procedures outlined in 40 CFR 60.4244 and District Rule 1160 within 90 days after the catalytic converter replacement. The source test results must verify that the engine meets the emission limits found in Condition 7.
[40 CFR 60.4243, 40 CFR 60.4244, District Rules 1160, 1303 and 1320]

15. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]