



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

AUTHORITY TO CONSTRUCT

B014956

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: NOVEMBER 2025

OWNER OF OPERATOR (Co. #834)

Joshua Basin Water District
PO Box 675
Joshua Tree, CA 92252

EQUIPMENT LOCATION (Fac. #2573)

Joshua Basin Water Dist - Park Blvd
6258 Park Blvd
Joshua Tree, CA 92252

Description:

DIESEL IC ENGINE, LOW-USE, PORTABLE ASPHALT ZIPPER consisting of: A certified Tier 3 diesel-fueled engine, EPA Engine Family BJDXL06.8117, Model year 2011, Year of manufacture 2018. Engine Exhaust Flow is 828 cfm at TBD Degrees F. Stack height is 4 feet high and Stack Diameter is 6 inches. Equipment elevation is 2721 feet above sea level.

One John Deere, Diesel fired internal combustion engine Model No. 6068HF285 and Serial No. PE6068N007657, Electronic Control Module, Direct Injected, Turbo Charged, Charge Air Cooler, Smoke Puff Limiter, Compression-Ignited, producing 173 bhp with 4 cylinders at 2300 rpm while consuming a maximum of 9.37 gal/hr. This equipment powers a Twin Disc Incorporated Asphalt Zipper Model No. SP211HP3 and Serial No. 2355339, rated at TBD.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.1931	gm/bhp-hr
NOx	2.4795	gm/bhp-hr
PM10	0.1491	gm/bhp-hr
PM2.5	0.1476	gm/bhp-hr
SOx	0.005	gm/bhp-hr
VOC	0.1305	gm/bhp-hr

CONDITIONS:

Fee Schedule: 1 (b) Rating: 1bhp SIC: 4941 SCC: 20200102 Location/UTM(Km): 565E/3778N

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

1.This certified Tier 3 compression-ignited internal combustion engine and the associated emission control systems 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 air contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[District Rule 1302(C)(2)(a)]

2.This engine shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements; or alternative diesel fuel, or CARB diesel fuel utilizing fuel additives, that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines.

[Title 17 CCR 93116.3(a)]

3.This engine and its associated equipment cannot be operated at the same location for more than 365 consecutive days. This equipment must be moved for a valid business purpose annually.

[District Rules 1302, 1303, and 1320 and Title 17 CCR 93116.2(a)(29)]

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

[District Regulation XIII - NSR]

5.This equipment shall not operate for more than 75 hours in any consecutive 12 month period. Before this limitation can be increased, the facility is required to submit to the District an application to modify the permit, which may trigger BACT review and may necessitate a Health Risk Assessment (HRA). In addition, public notice and/or a commenting period may be required.

[District Rules 1302, 1303, 1320, and 1520; 17 CCR 93116.2(a)(23)]

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

- a. Direct Diesel Injection;
- b. Turbocharger;
- c. Charge Air Cooler;
- d. Engine Control Module, and
- e. Smoke Puff Limiter.

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.

[District Rule 1302]

7.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. Date, location (decimal degrees, xx.xxxxx;-yyy.yyyyy), and duration of each use (in hours);
- b. Monthly and consecutive 12 month period hour meter readings, including the dates of all monthly readings;
- c. Date of each maintenance action or repair on any equipment noted in Condition #6;
- d. Description of each maintenance action or repair on any equipment noted in Condition #6; and
- e. Fuel sulfur concentration as required by condition #2 (you may use the supplier's certification of sulfur content if it is maintained as part of this log).

[District Regulation XIII - NSR]

8.This engine is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Portable Compression Ignition Engines (Title 17 CCR 93116). In the event of conflict between these conditions and the ATCM, the more stringent requirements shall govern.

[District Rule 1302 and Title 17 CCR 93116]

9.This USEPA Tier 3 certified engine built after 1/1/2009, operating as part of a small fleet, may not be sold, or offered for sale, to an end user in California on or after January 1, 2029. The sale of engines for resale outside of California is not prohibited.

[Title 17 CCR 93116.3(e)]

10.This engine shall not be used within 1000 feet of any K-12 school, residence, hospital, or other sensitive receptor location. Sensitive receptor locations include, but are not limited to, hospitals, schools, and day care centers, and such other locations as the District board or California Air Resources Board may determine.

[District Rule 204 and H&SC 42301.6]

11.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]