EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET



Model: DCA25SSI

The engine used in this generator set is certified to comply with United States EPA Interim Tier 4 and CARB Mobile Off-Highway emission regulations.

ENGINE DATA

Manufacturer: ISUZU Bore: 3.35 in. (85 mm)

Model: BV-4LE2 Stroke: 3.78 in. (96 mm)

Type: 4-Cycle, In-Line, 4-Cylinder, Diesel Displacement: 133 cid (2.18 liters)

Aspiration: Naturally Aspirated Compression Ratio: 18:1

PERFORMANCE DATA

SAE Gross HP @ 1800 RPM (60 Hz) 34
Rated Load Fuel Consumption (gal/Hr) 1.66
Rated Load Exhaust Gas Flow (cfm) 152
Rated Load Exhaust Gas Temperature (°F) 1004

| United States FPA | - Mobile Off-Highwa | v Interim Tier 4 I imits | - ≥25 BHP ~ <49 BHP |
|---------------------|---------------------|-----------------------------|---------------------|
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| Criteria Pollutant | Emission Requirements | Certified Engine Emissions |
|----------------------------------|-----------------------|----------------------------|
| NOx (Oxides of Nitrogen as NO2) | (5.59)* gr/bhp-hr | (4.92)* gr/bhp-hr |
| HC (Total Unburned Hydrocarbons) | (NOx + HC)* Combined | (NOx + HC)* Combined |
| CO (Carbon Monoxide) | 4.10 gr/bhp-hr | 1.49 gr/bhp-hr |
| PM (Particulate Matter) | 0.22 gr/bhp-hr | 0.19 gr/bhp-hr |

EPA Engine Family: ASZXL02.2VNB
EPA Certificate of Conformance: SZX-NRCI-10-09
ARB Executive Order: U-R-006-0321
Effective Date: Model Year 2010

Note: Engine operation with excessive air intake or exhaust restriction beyond factory published maximum limits, or with improper service maintenance, may result in higher emission levels.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICE OF TRANSPORTATION AND AIR QUALITY WASHINGTON, DC 20460



CERTIFICATE OF CONFORMITY 2010 MODEL YEAR

Manufacturer:

ISUZU MOTORS LIMITED

Engine Family:

ASZXL02.2VNB

Certificate Number:

SZX-NRCI-10-09

Intended Service Class:

NR 3 (19-37)

Fuel Type:

DIESEL

FELs:

NMHC +NOx: N/A

NOx: N/A

PM: N/A

Effective Date:

9/2/2009

Date Issued:

9/2/2009

Karl J. Simon, Director

Compliance and Innovative Strategies Division

Office of Transportation and Air Quality

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 1039, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR 1039 and produced in the stated model year.

This certificate of conformity covers only those nonroad compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 1039 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 1039.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR Part 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to a revocation or suspension of this certificate for reasons specified in 40 CFR Part 1039. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void ab initio for other reasons specified in 40 CFR Part 1039.

This certificate does not cover nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.



ISUZU MOTORS LIMITED

EXECUTIVE ORDER U-R-006-0321 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

| MODEL YEAR | ENGINE FAMILY | DISPLACEMENT (liters) | FUEL TYPE | USEFUL LIFE (hours) | |
|---------------------------------------------|---------------|-------------------------------|-----------|------------------------|--|
| 2010 | ASZXL02,2VNB | 2.2 | Diesel | 5000 | |
| SPECIAL FEATURES & EMISSION CONTROL SYSTEMS | | TYPICAL EQUIPMENT APPLICATION | | | |
| Mechanical Direct Injection | | Generator Set | | | |

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

| RATED EMISSION | | EXHAUST (g/kW-hr) | | | | OPACITY (%) | | | | |
|----------------|----------------------|-------------------|-----|-----|----------|-------------|------|-------|-----|------|
| POWER CLASS | STANDARD CATEGORY | | нс | NOx | NMHC+NOx | co | PM | ACCEL | LUG | PEAK |
| 19 ≤ kW < 37 | Tier 4 - Interim | STD | N/A | N/A | 7.5 | 5.5 | 0.30 | N/A | N/A | N/A |
| 10 2 701 | | CERT | | ~~ | 6.6 | 2.0 | 0.25 | | | - |

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

__day of September 2009.

Annette Hebert, Chief

Mobile Source Operations Division