

# EXHAUST EMISSION DATA SHEET

## MQ POWER GENERATOR SET

Model: DCA25USI



The engine used in this generator set is certified to comply with United States EPA Tier 2 and CARB Mobile Off-Highway emission regulations.

### ENGINE DATA

Model:	ISUZU AA-4LE2	Bore:	3.35 in. (85 mm)
Type:	4-Cycle, In-Line, 4-Cylinder, Diesel	Stroke:	3.78 in. (96 mm)
Aspiration:	Naturally Aspirated	Displacement:	133 cid (2.18 liters)
		Compression Ratio:	18:1

### PERFORMANCE DATA

SAE Gross HP @ 1800 RPM (60 Hz)	36
Rated Load Fuel Consumption (gal/Hr)	1.58
Rated Load Exhaust Gas Flow (cfm)	144
Rated Load Exhaust Gas Temperature (F)	1058

### United States EPA - Mobile Off-Highway Tier 2 Limits - $\geq 25$ BHP - $\leq 48$ BHP

Criteria Pollutant	Emission Requirements	Certified Engine Emissions
NOx (Oxides of Nitrogen as NO <sub>2</sub> )	(5.60)* gr/bhp-hr	(5.22)* gr/bhp-hr
HC (Total Unburned Hydrocarbons)	(NOx + HC)* Combined	(NOx + HC)* Combined
CO (Carbon Monoxide)	4.10 gr/bhp-hr	1.94 gr/bhp-hr
PM (Particulate Matter)	0.45 gr/bhp-hr	0.22 gr/bhp-hr

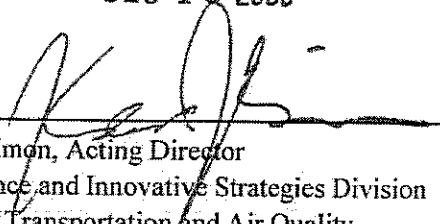
EPA Engine Family:	7SZXL02.2DNB
EPA Certificate of Conformance:	SZX-NRCI-07-03
ARB Executive Order:	U-R-006-0246
Effective Date:	Model Year 2007

*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  
WASHINGTON, DC 20460

2007 Model Year Certificate of Conformity

Manufacturer: **ISUZU MOTORS LIMITED**  
Engine Family: **7SZXL02.2DNB**  
Certificate Number: **SZX-NRCI-07-03**  
Intended Service Class: **NR 3 (19-37 KW)**  
Fuel Type: **DIESEL**  
FELs: **NMHC+NOx: N/A NOx: N/A PM: N/A**  
Effective Date: **12/13/2006**  
Date Issued: **DEC 13 2006**


  
Karl J. Simon, Acting 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 89, 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 Part 89 and produced in the stated model year.

This certificate of conformity covers only those new 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 89 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 89.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 89.129-96 and 89.506-96 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 89. 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 89.

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.

	<b>AIR RESOURCES BOARD</b>	<b>ISUZU MOTORS LIMITED</b>	<b>EXECUTIVE ORDER U-R-006-0246</b> New Off-Road Compression-Ignition Engines
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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)
2007	7SZXL02.2DNB	2.2	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel 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):

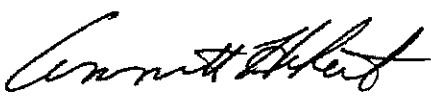
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	N/A	N/A	N/A
		CERT	--	--	7.0	2.6	0.30	--	--	--

**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.**

Executed at El Monte, California on this 19 day of January 2007.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division