

# EXHAUST EMISSION DATA SHEET

## MQ POWER AIR COMPRESSOR

Model: DIS185SSI4F



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

### ENGINE DATA

<b>Manufacturer:</b> Isuzu	<b>Bore:</b> 3.35 in. (85 mm)
<b>Model:</b> 4LE2T	<b>Stroke:</b> 3.78 in. (96 mm)
<b>Type:</b> 4-Cycle, In-Line, 4-Cylinder, Diesel	<b>Displacement:</b> 133 cid (2.2 liters)
<b>Aspiration:</b> Turbocharger, ECM, EGR, DOC Electronic Direct Injection	<b>Compression Ratio:</b> 17.6:1

### PERFORMANCE DATA

SAE Gross HP @ 2400 RPM (60 Hz) Rated	48.3
Load Fuel Consumption (gal/Hr) Rated	2.52
Load Exhaust Gas Flow (cfm) Rated Load	261
Exhaust Gas Temperature (°F)	835

United States EPA - Mobile Off-Highway Tier 4 Limits - 25 ≤ ~ <49 BHP

Criteria Pollutant	Emission Requirements		Certified Engine Emissions	
NOx (Oxides of Nitrogen as NO2)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
HC (Total Unburned Hydrocarbons)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
NOx + HC (Combined)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
CO (Carbon Monoxide)	4.101	gr/bhp-hr	0.149	gr/bhp-hr
PM (Particulate Matter)	0.022	gr/bhp-hr	0.014	gr/bhp-hr
NMHC (Non-Methane Hydrocarbons)	N/A	gr/bhp-hr	N/A	gr/bhp-hr
NMHC + NOx	3.504	gr/bhp-hr	3.057	gr/bhp-hr

EPA Engine Family:	FSZXL02.2ZTA
EPA Certificate of Conformance:	FSZXL02.2ZTA-001
ARB Executive Order:	U-R-006-0394
Effective Date:	Model Year 2015

*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  
2015 MODEL YEAR  
CERTIFICATE OF CONFORMITY  
WITH THE CLEAN AIR ACT OF 1990

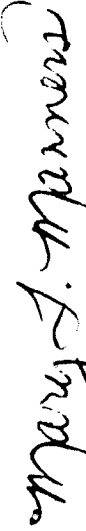
OFFICE OF TRANSPORTATION  
AND AIR QUALITY  
ANN ARBOR, MICHIGAN 48105

**Certificate Issued To:** Isuzu Motors Limited  
(U.S. Manufacturer or Importer)

**Certificate Number:** FSZXL02.2ZTA-001

**Effective Date:**  
07/03/2014

**Expiration Date:**  
12/31/2015

  
Byron J. Bunker, Division Director  
Compliance Division

**Issue Date:**  
07/03/2014

**Revision Date:**  
N/A

**Model Year:** 2015

**Manufacturer Type:** Original Engine Manufacturer

**Engine Family:** FSZXL02.2ZTA

**Mobile/Stationary Indicator:** Mobile  
**Emissions Power Category:** 19<=kW<37

**Fuel Type:** Diesel

**After Treatment Devices:** Diesel Oxidation Catalyst

**Non-after Treatment Devices:** Electronic/Electric EGR - Cooled, Electronic Control, Engine Design Modification

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 engines, by engine family, more fully described in the documentation required by 40 CFR Part 1039 and produced in the stated model year.

This certificate of conformity covers only those new 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 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 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 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.

California Environmental Protection Agency <b>Air Resources Board</b>	<b>ISUZU MOTORS LIMITED</b>	<b>EXECUTIVE ORDER U-R-006-0394</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-14-012;

**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)
2015	FSZXL02.2ZTA	2.179	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Control Module, Turbocharger, Electronic Direct Injection, Exhaust Gas Recirculation, Diesel Oxidation Catalyst			Pump, Compressor	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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 (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Final	STD	N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT	--	--	4.1	0.2	0.02	--	--	--

**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 27 day of June 2014.



Annette Hebert, Chief  
Emissions Compliance, Automotive Regulations and Science Division