EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: MQP40IZ



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								
Manufacturer:	SUZU	Bore: 3	.74 in 95 mm					
Model: E	B-4JG1T	Stroke: 4	.21 in 107 mm					
Type: 4	-Cycle Diesel, Direct Injection, I-4	Displacement: 1	89 in ³ 3.1 liters					
Aspiration: T	urbocharged	Compression Rat	io: 18.6:1					
PERFORMANCE DATA	<u>\</u>							
SAE Gross HP @ 1800 RPM	(60 Hz) 64.8							
Rated Load Fuel Consumptio	n (gal/Hr) 2.5							
Rated Load Exhaust Gas Flow	w (cfm) 332							
Rated Load Exhaust Gas Ten	nperature (F) 856							
United States EPA - Mobile Off-Highway Tier 2 Limits - ≥49 BHP- ≤74 BHP								
Criteria Pollutant	Emission Requiremen		ngine Emissions					
NOx (Oxides of Nitrogen as N	IO2) 5.60 gr/bhp-hr	5.29 g	r/bhp-hr					
HC (Total Unburned Hydroca	rbons) (NOx + HC)* Combine	d (NOx + ⊢	IC)* Combined					
CO (Carbon Monoxide)	3.73 gr/bhp-hr	0.89 g	r/bhp-hr					
PM (Particulate Matter)	0.29 gr/bhp-hr	0.15 g	r/bhp-hr					
EPA Engine Family:	7SZXL03.1GTB							

EPA Engine Family:	7SZXL03.1GTB
EPA Certificate of Conformance:	SZX-NRCI-07-10
ARB Executive Order:	U-R-006-0254
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:ISU2Engine Family:7SZ2Certificate Number:SZXIntended Service Class:NR 4Fuel Type:DIEFELs:NMHEffective Date:12/1Date Issued:DEC 1 3 2006

ISUZU MOTORS LIMITED 7SZXL03.1GTB SZX-NRCI-07-10 NR 4 (37-75 KW) DIESEL NMHC+NOx: N/A NO2 12/13/2006 2005

NOX: N/A PM: N/A

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.

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	7SZXL03.1GTB	3.1				
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS						
Direct Diesel Injection, Turbocharger			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	со	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	N/A	N/A	N/A
		CERT	~		7.1	1.2	0.20			

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

day of January 2007.

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: Isuzu Motors Limited

Nonroad Cl

ATTACHMENT

U-R-006-0254

EPA Engine Family: 7SZXL03.1GTB

Mfr Family Name: NA

Engine category:

Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
4JG1TABGB-01	BB-4JG1T	64.8@1800	61.3@1800	24.6@1800	N/A	N/A	N/A	EM,TC,DFI