EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET





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

Manufacturer:ISUZUBore:5.8in.(147 mm)Model:6WG1XStroke:6.0in.(154 mm)Type:4- Cycle, in-line, 6 Cylinder, DieselDisplacement: 956.9cid(15.681 liters)

Aspiration: Turbocharger Air Cooler. Electronic Direct Injection

ECM, EGR, DOC, SCR

Compression Ratio: 16.5:1

PERFORMANCE DATA

SAE Gross HP @ 1800 RPM (60 Hz) 512.3
Rated Load Fuel Consumption (gal/Hr) 22.5
Rated Load Exhaust Gas Flow (cfm) 1635
Rated Load Exhaust Gas Temperature (°F) 968

United States EPA - Mobile Off-Highway Tier 4	Limits -	174≤ ~ <751 BHP
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Criteria Pollutant	Emission	Requirements	Certified Engine Emissions		
NOx (Oxides of Nitrogen as NO2)	0.29 gr/l	ohp-hr	0.11	gr/bhp-hr	
HC (Total Unburned Hydrocarbons)	N/A gr/	ohp-hr	N/A	gr/bhp-hr	
NOx + HC (Combined)	N/A gr/l	ohp-hr	N/A	gr/bhp-hr	
CO (Carbon Monoxide)	2.609 gr/	ohp-hr	0.002	gr/bhp-hr	
PM (Particulate Matter)	0.014 gr/l	ohp-hr	0.014	gr/bhp-hr	
NMHC (Non-Methane Hydrocarbons)	0.141 gr/	ohp-hr	0.007	gr/bhp-hr	
NMHC + NOx	N/A gr/l	ohp-hr	N/A	gr/bhp-hr	

EPA Engine Family: FSZXL15.7QXB

EPA Certificate of Conformance: FSZXL15.7QXB-002

ARB Executive Order: U-R-006-0395

Effective Date: Model Year 2014

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.

Date: 8/25/2014



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **ACT OF 1990** CERTIFICATE OF CONFORMITY 2015 MODEL YEAR

OFFICE OF TRANSPORTATION ANN ARBOR, MÌCHIGAN 48105 AND AIR QUALITY

Byron J/Bunker, Division Director Emissions Power Category: 130<kW<=560 Mobile/Stationary Indicator: Mobile Fuel Type: Diesel Catalyst ation Date: ctive Date: /21/2014 12/31/2015 Manufacturer Type: Original Engine Manufacturer Engine Family: FSZXL15.7QXB Model Year: 2015

Compliance Division

Revision Date:

Issue Date: 07/21/2014 After Treatment Devices: Selective Catalytic Reduction, Ammonia Slip Catalyst, Diesel Oxidation

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

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 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 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.

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 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 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.

EXECUTIVE ORDER U-R-006-0395 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-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	FSZXL15.7QXB	15.681	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION			
Coole Recirculation	Electronic Control Module, Turbocharger, Charge Air Cooler, Electronic Direct Injection, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Selective Catalyst Reduction-Urea, Ammonia Oxidation Catalyst		Generator		

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):

POWER S	EMISSION		EXHAUST (g/kw-hr)				OPACITY (%)			
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	co	PW	ACCEL	LUG	PEAK
130 ≤ kW < 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
:		CERT	0.01	0.15	River	0.004	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).

BE IT FURTHER RESOLVED: The listed engine family is conditionally certified pending submission of additional test data to verify compliance with useful-life emission standards. The manufacturer has until December 31, 2014 to provide test data to confirm or correct the certification emissions levels on this conditional certification. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified and subject to civil penalties pursuant to Health and Safety Code Section 43154.

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 August 2014.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division