EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: DCA125SSIU4F



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 DA	ATA							
Manufacturer:	ISUZU			Bore:	4.52	in.	(115	mm)
Model:	4HK1X			Stroke:	4.92	in.	(125	mm)
Туре:	4-Cycle, In-Line, 4-Cylinde	er, Diesel		Displacement	: 317	cid	(5.2	liters)
Aspiration:	Turbocharger, ECM, EGR Injection, Charge Air Cool		CR Electronic Direct	Compression	Ratio:		16.5	:1
PERFORMA	NCE DATA							
SAE Gross HP	@ ¹⁸⁰⁰ RPM (60 Hz) Ra	ted 170	0.8					
Load Fuel Con	sumption (gal/Hr) Rated	7.1	1					
Load Exhaust	Gas Flow (cfm) Rated Lo	bad 512	2					
	emperature (°F)	658	8					
Uni	ited States EPA - M	obile Of	ff-Highway Tier 4	Limits -		1	75 ≤	~ ≤ 174 BHP
Crite	eria Pollutant	Emis	sion Requirements	Certifie	d Engi	ne E	missic	ons
NOx (Oxides o	of Nitrogen as NO2)	0.298	gr/bhp-hr	0.089	gr/b	hp-hr		
HC (Total Unb	urned Hydrocarbons)	N/A	gr/bhp-hr	N/A	gr/bl	np-hr		
NOx + HC (Co	mbined)	N/A	gr/bhp-hr	N/A	gr/bl	np-hr		
CO (Carbon N	lonoxide)	3.728	gr/bhp-hr	0.074	gr/bl	np-hr		
CO (Carbon N PM (Particulate		3.728 0.014	gr/bhp-hr gr/bhp-hr	0.074 0.014	-	ոp-hr ոp-hr		
PM (Particulate			- ·		gr/bl	-		
PM (Particulate	e Matter)	0.014	gr/bhp-hr	0.014	gr/bl	np-hr np-hr		
PM (Particulate NMHC (Non-Me	e Matter) ethane Hydrocarbons)	0.014 0.141	gr/bhp-hr gr/bhp-hr gr/bhp-hr	0.014	gr/bl gr/bl	np-hr np-hr		
PM (Particulate NMHC (Non-Me NMHC + NOx EPA Engine Fa	e Matter) ethane Hydrocarbons) amily: MS	0.014 0.141 N/A	gr/bhp-hr gr/bhp-hr gr/bhp-hr XB	0.014	gr/bl gr/bl	np-hr np-hr		
PM (Particulate NMHC (Non-Me NMHC + NOx EPA Engine Fa	e Matter) ethane Hydrocarbons) amily: MS e of Conformance: MS	0.014 0.141 N/A SZXL05.2R	gr/bhp-hr gr/bhp-hr gr/bhp-hr XB XB-010	0.014	gr/bl gr/bl	np-hr np-hr		

UNITED STATED	CERTIFICATE	DDEL YEAR	ЛІТҮ	OFFICE OF TRANSP AND AIR QUA ANN ARBOR, MICH	LITY
Certificate Issued To: Isuz (U.S.) Certificate Number: MSZX	Manufacturer or Importer)	Effective Dat 07/16/2020 Expiration Da 12/31/2021	te: Byron J Bunker	, Division Director ce Division	Issue Date: 07/16/2020 Revision Date: N/A
Model Year: 2021 Manufacturer Type: Origina Engine Family: MSZXL05.2	5		Mobile/Stationary Indicator: Mobile Emissions Power Category: 56<=kW< Fuel Type: Diesel After Treatment Devices: Diesel Oxida Reduction Non-after Treatment Devices: Electron	ation Catalyst, Ammonia Slip Cataly	

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.

AL PROTES

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.

Pursuant to the authority vested in California 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-19-095;

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)				
2021	MSZXL05.2RXB	Diesel	8000					
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Air Coole Recircula	ic Control Module, Turk r, Electronic Direct Inje ation, Diesel Oxidation st Reduction-Urea, Am Catalyst	ction, Exhaust Gas Catalyst, Selective	Generator Set					

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	EMISSION			I	EXHAUST (g/kw-ł	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.01	0.12		0.05	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 on this <u>2nd</u> day of December 2020.

Allen Zyons, Chief Emissions Certification and Compliance Division

Attachment: Engine Models	EO #: U-R-006-0499	Family: MSZXL05.2RXB	Attachment Last Revised:	11/23/2020
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Model	Code	Trim	Config	Displacement	Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fuel Units	Peak Torque	Peak Torque - Units	Peak Torque - Speed (rpm)	Peak Torque - Fuel	Peak Torque - Fuel Units	OBD	GHG	Special	Notes
BR-4HK1X	4HK1XD RBB-01	N/A	14	5.193	Liters	170.8	horsepower	1800	144.7	mm3/stroke	498.6	lb-ft	1800	144.7	mm3/stroke	N/A	N/A	N/A	N/A
																			-
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																			-
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