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.

	lsuzu			Bore:	4.52	in.	(115	mm)	
	4HK1X			Stroke:	4.92	in.	、 (125	,	
Туре:	4 Cycle, in-line, 4 Cylinder		Displacement	317	cid	、 (5.2	liters)		
Aspiration:	Turbocharger Air Cooler. I ECM, EGR, DOC, SCR	Compression			16.5	,			
PERFORMAN	NCE DATA								
SAE Gross HP	@ 1800 RPM (60 Hz)	17	0.8						
Rated Load Fue	l Consumption (gal/Hr)	7.1	1						
Rated Load Exh	aust Gas Flow (cfm)	51	2						
Rated Load Exh	aust Gas Temperature	(⁰F) 65	8						
Unit	ed States EPA - M	obile O	ff-Highway Tier 4	Limits -		1	~ >00	~ ≤174	BHP
Criter	ia Pollutant	Emis	sion Requirements	Certifie	d Engi	ne Ei	nissio	ons	
	ia Pollutant Nitrogen as NO2)	Emis 0.298	sion Requirements gr/bhp-hr	Certifie 0.089		ne Ei hp-hr	nissio	ons	
NOx (Oxides of			•		gr/b		nissio	ons	
NOx (Oxides of	Nitrogen as NO2) rned Hydrocarbons)	0.298	gr/bhp-hr	0.089	gr/bl gr/bl	hp-hr	nissio	ons	
NOx (Oxides of HC (Total Unbu	Nitrogen as NO2) rned Hydrocarbons) nbined)	0.298 N/A	gr/bhp-hr gr/bhp-hr	0.089 N/A	gr/bl gr/bł gr/bł	hp-hr np-hr	nissio	ons	
NOx (Oxides of HC (Total Unbu NOx + HC (Com CO (Carbon Mc	Nitrogen as NO2) rned Hydrocarbons) nbined) onoxide)	0.298 N/A N/A	gr/bhp-hr gr/bhp-hr gr/bhp-hr	0.089 N/A N/A	gr/bl gr/bł gr/bł gr/bł	hp-hr np-hr np-hr	nissio	ns	
NOx (Oxides of HC (Total Unbur NOx + HC (Com CO (Carbon Mo PM (Particulate	Nitrogen as NO2) rned Hydrocarbons) nbined) onoxide)	0.298 N/A N/A 3.728	gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr	0.089 N/A N/A 0.074	gr/bł gr/bł gr/bł gr/bł gr/bł	hp-hr np-hr np-hr np-hr	nissio	ns	
NOx (Oxides of HC (Total Unbur NOx + HC (Com CO (Carbon Mo PM (Particulate	Nitrogen as NO2) rned Hydrocarbons) nbined) onoxide) Matter)	0.298 N/A N/A 3.728 0.014	gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr	0.089 N/A N/A 0.074 0.014	gr/bł gr/bł gr/bł gr/bł gr/bł	hp-hr np-hr np-hr np-hr np-hr np-hr	nissio	ns	
NOx (Oxides of HC (Total Unbur NOx + HC (Com CO (Carbon Mo PM (Particulate NMHC (Non-Met	Nitrogen as NO2) rned Hydrocarbons) nbined) pnoxide) Matter) thane Hydrocarbons)	0.298 N/A N/A 3.728 0.014 0.141	gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr	0.089 N/A N/A 0.074 0.014 0.007	gr/bl gr/bł gr/bł gr/bł gr/bł gr/bł	hp-hr np-hr np-hr np-hr np-hr np-hr	nissio	ns	
NOx (Oxides of HC (Total Unbur NOx + HC (Com CO (Carbon Mc PM (Particulate NMHC (Non-Met NMHC + NOx EPA Engine Far	Nitrogen as NO2) rned Hydrocarbons) nbined) onoxide) Matter) thane Hydrocarbons) mily: JSZ	0.298 N/A N/A 3.728 0.014 0.141 N/A	gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr	0.089 N/A N/A 0.074 0.014 0.007	gr/bl gr/bł gr/bł gr/bł gr/bł gr/bł	hp-hr np-hr np-hr np-hr np-hr np-hr	missio	ns	
NOx (Oxides of HC (Total Unbur NOx + HC (Com CO (Carbon Mo PM (Particulate NMHC (Non-Met NMHC + NOx EPA Engine Far EPA Certificate	Nitrogen as NO2) rned Hydrocarbons) nbined) onoxide) Matter) thane Hydrocarbons) mily: JS2 of Conformance: JS2	0.298 N/A N/A 3.728 0.014 0.141 N/A ZXL05.2R3	gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr	0.089 N/A N/A 0.074 0.014 0.007	gr/bl gr/bł gr/bł gr/bł gr/bł gr/bł	hp-hr np-hr np-hr np-hr np-hr np-hr	nissio	ns	
NOx (Oxides of HC (Total Unbur NOx + HC (Com CO (Carbon Mc PM (Particulate NMHC (Non-Met NMHC + NOx EPA Engine Far	Nitrogen as NO2) rned Hydrocarbons) nbined) onoxide) Matter) thane Hydrocarbons) mily: JSZ of Conformance: JSZ Order: U-F	0.298 N/A 3.728 0.014 0.141 N/A XL05.2R	gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr gr/bhp-hr KB KB-012	0.089 N/A N/A 0.074 0.014 0.007	gr/bl gr/bł gr/bł gr/bł gr/bł gr/bł	hp-hr np-hr np-hr np-hr np-hr np-hr	missio	ns	

STATES IDAISH	UNITED STATES ENVIRONM 2018 MC CERTIFICATE WITH THE C	OFFICE OF TRANSI AND AIR QUA ANN ARBOR, MICE	ALITY		
		1			
Certificate Issued To: Isuzu Motors Limited (U.S. Manufacturer or Importer) Certificate Number: JSZXL05.2RXB-012				er, Division Director ance Division	Issue Date: 06/07/2017 Revision Date: N/A
		ı	An Chanadarah Angelan		
Model Veer 2018			Mahila/Stationary Indicator: Mahila	`	

Model Year: 2018	Mobile/Stationary Indicator: Mobile
Manufacturer Type: Original Engine Manufacturer	Emissions Power Category: 56<=kW<130
Engine Family: JSZXL05.2RXB	Fuel Type: Diesel
	After Treatment Devices: Diesel Oxidation Catalyst, Ammonia Slip Catalyst, Selective Catalytic Reduction
	Non-after Treatment Devices: Electronic Control, Electronic/Electric EGR - Cooled

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.

PROTECTION

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

OD Air Resources Board

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)	
2018	JSZXL05.2RXB	5.193	Diesel	8000	
SPECIAL	FEATURES & EMISSION C	ONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION		
Coole Recirculatio	ic Control Module, Turboc er, Electronic Direct Injectio on, Diesel Oxidation Catal uction-Urea, Ammonia Ox	on, Exhaust Gas yst, Selective 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):

RATED EMISSION POWER STANDARD CLASS CATEGORY			EXHAUST (g/kw-hr)					OPACITY (%)		
		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	<u> </u>	0.1	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

29th day of June 2017.

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

ENGINE MODEL SUMMARY

ATTACHMENT 1 OF 1

CARB EO: U-R-006-0454 DATE: 06/05/17

ENGINE FAMILY	ENGINE CODE	ENGINE MODEL	BHP@RPM (SAE Gross)	FUEL RATE: mm3/stroke @peak HP	FUEL RATE: Ibs/hr @peak HP	TORQUE@RPM Ibs ft	FUEL RATE: mm3/stroke @peak TORQUE	FUEL RATE: Ibs/hr @peak TORQUE
JSZXL05.2RXB	4HK1XDRBB-01	BR-4HK1X	170.8 @ 1800 (127.4kW)	144.7	57.9	498.6 @ 1800 (676Nm)	144.7	57.9

ENGINE FAMILY	ENGINE CODE	ENGINE MODEL	EMISSION CONTROL DEVICE Per SAE J1930
JSZXL05.2RXB	4HK1XDRBB-01	BR-4HK1X	ECM, TC, CAC, DFI, EGR, DOC, SCR-U, AMOX