## **EXHAUST EMISSION DATA SHEET**

## **MQ POWER GENERATOR SET**

Model: DCA-45USI2



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

Manufacturer:	ISUZU			Bore:	3.75	in.	(95.4	mm)
Model:	4JJT			Stroke:	4.09	in.	(105	mm)
Туре:	4-Cycle, In-Line, 4-cylinde	Displacement	t: 183	cid	(3.0	liters)		
Aspiration:	Turbocharger. ECM. EGR	Compression Ratio: 17.5:1						
PERFORMA	NCE DATA							
SAE Gross HP	9 @ 1800 RPM (60 Hz)	67	7.1					
Rated Load Fu	el Consumption (gal/Hr)	2.	7					
	(ofm)	23	33					
Rated Load Ex	liaust Gas Flow (Cilli)							
			96					
	chaust Gas Temperature		96					
Rated Load Ex		(°F) 89	-	i Limits -	49.6	≤ Bł	<b>1</b> ₽ ~ <sup>-</sup>	< 100.6 BH
Rated Load Ex	khaust Gas Temperature	(°F) 89	0ff-Highway Tier 4					
Rated Load Ex Un Crite	thaust Gas Temperature ited States EPA - M eria Pollutant	(°F) 89	Off-Highway Tier 4		ed Engi	ne E	missio	
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 2012 MODEL YEAR CERTIFICATE OF CONFORMITY WITH THE CLEAN AIR ACT OF 1990       Isza Moors Limited U.S. Manufacturer of Importer)     Effective Date 10/15/2011     Constrained Expiration Date: 12/31/2012     Compliance and importers for 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 rest engines which have been found to conform to applicable requirements and which represent the following engines. Bigue Design 103 00LTB       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 rest engines which have been found to conform to applicable requirements and which represent the following engines. Bigue Design Electronic Control 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 rest engines which have been found to conform to applicable requirements and which represent the following engines. Bigue Design Electronic Control 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 rest engines which have been found to conform to applicable requirements and which represent the following engines. Bigue Design Electronic Control electronic Control or suppersion of this certificate for the said manufacturer, as defined rest that the manufacturer shall consent to all impecting described in 40 CFR Part 1039. This also a term of this certificate or other reasons specified in 40 CFR Part 1039. This also a term of this certificate or the reasons specified in 40 CFR Part 1039. This also a term of this certificate or other reasons specified in 40 CFR Part 1039. This also a term of the certificate or other reasons specind of the diverse for introduction, into co		C c	Mo Ma En:	Purs issue requ This docu	rend This	
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NVIRONMENTAL PROTECTION AGENC 2012 MODEL YEAR UFFICATE OF CONFORMITY THE CLEAN AIR ACT OF 1990       Effective Date: 09/15/2011       Expiration Date: 12/31/2012       Mobile/Stationary Indi Emissions Power Categ Fuel Type: Diesel After Treatment Devic Non-after Treatmen	UNITED STATES CE WIT	tors Limited facturer or Importer) UTB-005	ine Manufacturer	Air Act (42 U.S.C. section 754 s which have been found to con roduced in the stated model yea only those new compression-ig Part 1039 and which are produc	wocation or suspension of this c sons specified in 40 CFR Part 10 es sold, offered for sale, or intro	
L PROTECTION AGENCY     OFFICE OF TARA       EAR ACT OF 1990     AND AT AND	ENVIRONMENTA 2012 MODEL Y RTIFICATE OF CO H THE CLEAN AIR	Eff 0 1		(7) and 40 CFR Part 1039, a form to applicable requirer r. r. gnition engines which confor- sed during the model year s	sertificate for reasons specificate 339. duced, or delivered for intr	
<b>AGENCY OFFICE OF T</b> AND AI ANN ARBOR, <b>Karl J. Simon, Director Compliance and Importative Strategies Division ationary Indicator:</b> Mobile <b>Power Category:</b> 37 <b>Power Category:</b> 37 <b>Freatment Devices Installed Treatment Devices:</b> No After Treatment Devices Installed <b>Treatment Devices:</b> No After Treatment Devices Installed <b>Treatment Devices:</b> Engine Design Modification, Electric <b>Control Dorized in those provisions, this certifications prescribed in those provisions, this certification and conditions prescribed in those provisions, this certificate for the design specifications that applied to those engine of the said manufacturer, as defined in 40 CFR Part 103       <b>Sourized in a warrant or court order.</b> Failure to comply with 1039. It is also a term of this certificate that this certificate that this certificate that this certificate that this certificate       <b>Sourized in the U.S.</b> prior to the effective date of the certificate  </b>	L PROTECTIO EAR NFORMITY ACT OF 1990	ctive Date: 3/15/2011 ration Date: 2/31/2012	Mobile/St Emissions Fuel Type After Tre: Non-after Electronic	nd subject to the term nents and which repre rrm in all material response to the term tated on this certificat	ried in 40 CFR Part 10 oduction, into comme	
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	OFFICE OF TRANSPORTATION AND AIR QUALITY ANN ARBOR, MICHIGAN 48105	Simon, Director Stratigies Division	e V<56 Treatment Devices Installed ne Design Modification, Electr	d in those provisions, this certif by engine family, more fully c ations that applied to those enging as defined in 40 CFR Part 103	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)		
2012	CSZXL03.0UTB	3.0	Diesel	8,000		
	FEATURES & EMISSION	CONTROL SYSTEMS				
Ele Electronic	ctronic Direct Injection, Control Module, Exhau	Turbocharger, ist Gas Recirculation	Generator S	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 POWER CLASS	EMISSION		EXHAUST (g/kW-hr)					OPACITY (%)		
	STANDARD CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 - Interim	STD	N/A	N/A	4.7	5.0	0.30	N/A	N/A	N/A
		CERT			3.0	1.4	0.23			

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 September 2011.

Annette Hebert, Chief Mobile Source Operations Division