EXHAUST EMISSION DATA SHEET

MQ POWER GENERATOR SET

Model: DCA10SPX4



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: K	UBOTA		Bore:	3.23 in	(83 mm)
Model: D	1503		Stroke:	3.63 in	(924. mm)
Туре: 4	-Cycle Diesel, 3	-Cylinder, Swirl Chamber	Displacement:	91 cid	(1.49 liters)
Aspiration: N	laturally Aspirate	ed	Compression I	Ratio:	23:1
PERFORMANCE DATA	1				
SAE Gross HP @ 1800 RPM					
Rated Load Fuel Consumption (gal/Hr) 0.97					
Rated Load Exhaust Gas Flow		108			
Rated Load Exhaust Gas Flow Rated Load Exhaust Gas Ten	. ,	401			
Rated Load Exhaust Gas Ten	nperature (°F)		r 4 Limits - ≥′	11 BHP -	~ <25 BHP
Rated Load Exhaust Gas Ten	s EPA - Mob	401		11 BHP ~ Engine E	
Rated Load Exhaust Gas Ten United States	s EPA - Mob	401 Dile Off-Highway Tie mission Requirements			missions
Rated Load Exhaust Gas Ten United States Criteria Pollutant	EPA - Mob 02) 5.5	401 bile Off-Highway Tie mission Requirements	Certified 4.62	l Engine E	missions
Rated Load Exhaust Gas Ten United States Criteria Pollutant NOx (Oxides of Nitrogen as N	EPA - Mob 02) 5.5	401 Dile Off-Highway Tie mission Requirements 59 gr/bhp-hr NOx + HC)* Combined	Certified 4.62	l Engine E gr/bhp-hr	missions mbined
Rated Load Exhaust Gas Ten United States Criteria Pollutant NOx (Oxides of Nitrogen as N HC (Total Unburned Hydrocar	EPA - Mob EI 02) 5.5 rbons) (401 bile Off-Highway Tie mission Requirements 59 gr/bhp-hr NOx + HC)* Combined 02 gr/bhp-hr	Certified 4.62 (NOx	l Engine E gr/bhp-hr + HC)* Col	missions r mbined r
Rated Load Exhaust Gas Ten United States Criteria Pollutant NOx (Oxides of Nitrogen as N HC (Total Unburned Hydrocan CO (Carbon Monoxide)	EPA - Mob Ei (O2) 5.5 rbons) (4.9 0.3	401 bile Off-Highway Tie mission Requirements 59 gr/bhp-hr NOx + HC)* Combined 02 gr/bhp-hr	Certified 4.62 (NOx 0.75	l Engine E gr/bhp-hr + HC)* Col gr/bhp-hr	missions r mbined r
Rated Load Exhaust Gas Ten United States Criteria Pollutant NOx (Oxides of Nitrogen as N HC (Total Unburned Hydrocat CO (Carbon Monoxide) PM (Particulate Matter)	EPA - Mob EI (O2) 5.5 rbons) (4.5 0.3 AKBX (401 bile Off-Highway Tie mission Requirements 59 gr/bhp-hr NOx + HC)* Combined 32 gr/bhp-hr 30 gr/bhp-hr	Certified 4.62 (NOx 0.75	l Engine E gr/bhp-hr + HC)* Col gr/bhp-hr	missions r mbined r
Rated Load Exhaust Gas Ten United States Criteria Pollutant NOx (Oxides of Nitrogen as N HC (Total Unburned Hydrocal CO (Carbon Monoxide) PM (Particulate Matter) EPA Engine Family:	EPA - Mob EI O2) 5.5 rbons) (4.9 0.3 AKBX ce: KBX-1	401 bile Off-Highway Tie mission Requirements 59 gr/bhp-hr NOx + HC)* Combined 92 gr/bhp-hr 30 gr/bhp-hr 53 gr/bhp-hr	Certified 4.62 (NOx 0.75	l Engine E gr/bhp-hr + HC)* Col gr/bhp-hr	missions r mbined r

Note: Engine operation with excessive air intake or exhaust restriction beyond factory published maximum lim or with improper service maintenance, may result in higher emission levels.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICE OF TRANSPORTATION AND AIR QUALITY WASHINGTON, DC 20460

CERTIFICATE OF CONFORMITY 2010 MODEL YEAR

NOx: N/A



KUBOTA CORPORATION AKBXL01.5FCC KBX-NRCI-10-19 NR 2 (8-19) DIESEL NMHC +NOx: N/A NO 10/9/2009 10/9/2009

PM: N/A

Karl J. Simon, 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 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 nonroad engines, by engine family, more fully described in the documentation required by 40 CFR 1039 and produced in the stated model year.

This certificate of conformity covers only those 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 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 Part 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 a 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.

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.

California Environmental Protection Agency AIR RESOURCES BOARD	KUBOTA Corporation	EXECUTIVE ORDER U-R-025-0428 New Off-Road Compression-Ignition Engines
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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)		
2010	AKBXL01.5FCC	1.499	Diesel	3000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Indirect Diesel Injection, Electronic Control Module (Some Models)			Generator Set, Refrigeration Unit			

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):

	EMISSION		EXHAUST (g/kw-hr)				OPACITY (%)			
	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
8 ≤ KW < 19	Tier 4	STD	N/A	N/A	7.5	6.6	0.40	N/A	N/A	N/A
		CERT			6.2	1.0	0.21			

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 December 2009.

Annette Hebert, Chief Mobile Source Operations Division