California Environmental Protection Agency

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)
2008	8BXL01.5BCD	1.123, 1.498	Diesel	5000
	FEATURES & EMISSION		TYPICAL EQUIPMENT A	PPLICATION
	Indirect Diesel Inje	ction	Loaders, Tractor, Compress Other OEM Pro	or, Generator Set, ducts

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	EMISSION			E	XHAUST (g/kW-l	nr)		OF	PACITY (%)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	₽M	ACCEL	LUG	PEAK
19 <u>≤</u> kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT			4.7	1.2	0.24	4	2	9

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 April 2007.

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Form

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Manufacturer: KUBOTA Corporation Engine category: Nonroad Cl

EPA Engine Family: 8KBXL01.5BCD

Mfr Family Name: N/A

Process Code: New Submission

Attachment E0#4-R-025-0322

(for diesel only)	mm/stroke @ peak (for diesel only) 22.5	eak HP	(lbs/hr) @ peak HP (for diesels only) 13.6	6.Torque @ RPM (SEA Gross) 48.1@2600	mm/stroke@peak torque 23.5	8.Fuel Rate: (lbs/hr)@peak torque 10.2	9.Emission Control Device Per SAE J1930 EM T04
21.2	21.2		12.8	44.7@2600	21.8	9.5	EN
24.6	24.6		16.5	71.3@2200	24.8	12.2	EM
22.2	22.2		9.71	64.2@2600	22.3	13.0	EA
20.8	20.8		16.7	60.0@2600	20.9	12.1	EM
23.4	23.4		15.7	69.3 @ 2200	24.1	11.9	EM
22.8	22.8		15.3	69.3@2200	24.1	11.9	EM
22.5	22.5		14.3	69.3@2100	24.1	11.3	EM
22.3	22.3		14.0	69.3@1700	24.4	9.3	ĒN
21.8	21.8		13.2	67.9@1900	24.0	10.2	EN
21.8	21.8		12.7	69.3@1700	24.4	9.3	EM
21.8	21.8		12.7	68.9@1700	24.3	9.2	EM
20:7	20.7		12.0	68.2@1600	24.1	8.6	EM
20.7	20.7		12.0	66.5@1600	23.6	8.4	EM
22.3	22.3		12.5	66.4@1900	23.6	10.0	EN
22.0	22.0		11.8	64.0@1600	24.4	8.7	EM
22.0	22.0		11.8	69.3@1600	24.4	8.7	EM
21.8	21.8		11:7	68.2@1600	24.2	8.7	EM
21.9	21.9		11.3	69.3@1600	24.4	8.7	EM
22.6	27 G		111	65.3@1600	23.2	8.3	EM L