California Environmental Protection Agency 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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system 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)
2003	3KBXL03.3ACD	3.318	Diesel	8000
	FEATURES & EMISSION	· · · · · · · · · · · · · · · · · · ·	TYPICAL EQUIPMENT	APPLICATION
	Direct Diesel Injec	ction	Pump, Compressor, Other Ir	ndustrial Equipment

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	EXHAUST (g/kw-ł	ור)		OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+Nox	со	PM	ACCEL	LUG	PEAK
37 ≤ KW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT		6.6				3	6	6

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 _

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day of December 2002.

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Aller Lyons, Chief Mobile Source Operations Division

AHac Manufacturer: Engine category: EPA Engine Family Mfr Family Name: Process Code:	HArchment (of) er: KUBOTA Corporation igory: Nonroad Cl Famy: 3KBXL03.3ACD Name: N/A Name: N/A	tion -			v- ₁	V-R-025-0124		
1.Engine Code	2.Engine Model	3.8HP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP اس (for dieset only)	5.Fuel Rate: P (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	8.Fuel Rate: 9.Emission Control (lbs/hr) @peak torque Device Per SAE J1930
V3300-DI-E01 V3300-DI-E02	V3300-DI-E V3300-DI-E	74.4@2600 61.4@2200	47.5 50.0 45.8 47.2	29.1 23.2	185.9@1300 166.3@1400	62.0 51.7	18.0 16.2	L T T T T T T T T T T T T T T T T T T T
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Engine Model Sur nary Form

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