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)	
2007	7KBXL02.4ECD	1.826, 2.434	Diesel	5000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION		
Direct Diesel Injection, Electronic Control Module			Loader, Other Industrial 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 STANDARD CATEGORY		EXHAUST (g/kW-hr)			OPACITY (%)				
POWER			нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
19 <u><</u> kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT			6.5	2.2	0.40	3	4	4

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 2006.

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Form

CONFIDENTIAL

KUBOTA Corporation Nonroad Cl gine category: nufacturer:

7KBXL02.4ECD A Engine Family.

N/A r Family Name:

New Submission ocess Code:

Attachment Huten R. Des 0205

8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torque Device Per SAE J1930	EM
8.Fuel Rate: (Ibs/hr)@peak torque	10:6 10:7 14:6
7.Fuel Rate: mm/stroke@peak torque	30.0 39.6
6.Torque @ RPM (SEA Gross)	00213@1500 00213@1600 0033@1600
5.Fuel Rate: P (Ibs/hr) @ peak HP (for diesels only)	(9) 1515 1416
4.Fuel Rate: mm/stroke @ peak H (for diesel only)	32.8 35.5 35.5
3.BHP@RPM (SAE Gross)	48.902600 39.202600 38.102600
o Encine Model	Engine Code Z.Engine Wood Ale 902500 XAN2 Alexan2 49.902500 XAN2 Alexan2 49.902500 803-M-DI-ES01 D1803-M-DI-ES 39.202600 803-M-DI-ES02 D1803-M-DI-ES 38.1(02600)
-	.Engine Code X3N2 803-M-DI-ESO1 803-M-DI-ESO2

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EM EM EM EM EM EM	
	NAMES OF BRIDE STREET
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39.6 39.6 38.4 38.4 35.8 35.8 35.8 37.1 35.9	
93:3@1600 93:3@1600 90:8@1700 1122.3@1700 114:6@1500 108.3@1200 1117.0@1600 1115.0@1500	
9333 9933 9933 1112 1114 1114 1114 1114 1114 1114 11	
(9 (15)5 (16)5 (16)5 (16)5 (16)2 (12	
82.8 35.5 32.6 33.9 33.9 33.3 33.3	27.01 kultura a kontar
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x3N2 k03:M:DI-ES01 803:M:DI-ES02 403:M:DI-ES02 403:M:DI-ES02 403:M:DI-ES03 403:M:DI-ES03	408-M-DI-ESUO
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