

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0392 New Off-Road Compression-Ignition Engines

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)
2009	9KBXL02.4FCD	1.826, 2.434	Diesel	5000
	FEATURES & EMISSION		TYPICAL EQUIPMENT AF	
Ele	Indirect Diesel Injectronic Control Module (ction, Some Models)	Tractor, Compressor, Ge Other Industrial Equ	enerator Set, uipment

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	hr)		O	PACITY (%	6)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT			6.3	0.9	0.18	2	3	3

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 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Raphael Susnowith

Engine Model Summary Form

KUBOTA Corporation Manufacturer:

Nonroad Cl Engine category:

9KBXL02.4FCD EPA Engine Family.

Mfr Family Name: N/A

Process Code:

Attachment

U-R-025-0392

D1803-MET01 D1803-MET0	000000000000000000000000000000000000000	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (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	9.Emission Control Device Per SAE J1930	_
D1803-M-ET >>√J 30.6@2200 33.3 12.3 83.8@1600 37.5 10.1 D1803-M-ET √√ 36.1@2600 34.8 15.2 85.3@1600 37.8 10.1 D1803-M-ET 34.7@2500 34.7 14.5 85.3@1600 37.8 10.1 D1803-M-ET 33.3@2400 33.5 12.9 83.8@1600 37.5 10.1 D1803-M-ET 33.3@2400 33.5 12.9 83.8@1600 37.5 10.1 D1803-M-ET 35.7@2700 33.5 15.2 85.3@1500 37.8 9.5 D1803-M-ET 35.7@2700 34.4 15.2 85.3@1500 37.8 9.5 D1803-M-ET 35.6@2700 34.4 15.6 85.3@1500 39.1 13.9 V2403-M-ET 48.9@2700 34.4 16.9 117.0@1600 39.0 13.9 V2403-M-ET 48.9@2500 35.1 18.8 115.0@1600 39.0 13.9 V2403-M-ET 45.7@2400 35.1 18.8 115.0@1600 38.9 13.9 V2403-M-ET 43.9@2300 34.7 17.8 115.0@1600 38.9 13.9 V2403-M-ET 43.9@2700 34.4 15.0 35.4 15.0 36.9 13.9 V2403-M-ET 48.9@2700 34.4 15.0 36.9 13.9 V2403-M-ET 48.9@2700 34.4 15.0 38.9 13.9	3-M-ET01	D1803-M-ET	37.4@2700	35.2	15.9	85.3@1600	37.8	1.01	EM	F
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	3-M-ET09	V2403-M-ET	48.9@2700	34.4	20.8	116,5@1500	38(9)	13.0	EM	>
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