

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0382 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	9KBXL01.8FAD	1.826	Diesel 5000					
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION					
lr	ndirect Diesel Injection, T Smoke Puff Limi	urbocharger, iter	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				XHAUST (g/kw-l	OPACITY (%)				
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			6.1	1.0	0.22	2	2	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 2008.

Annette Hebert, Chief

Rephal Susmowith

Mobile Source Operations Division

Engine Model Summary Form

KUBOTA Corporation Manufacturer:

EPA Engine Family: 9KBXL01.8FAD Nonroad CI Engine category:

Mfr Family Name: N/A

New Submission Process Code:

Attachment

U-R-025-0382

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on Control SAE J1930	EM,SPL TOT		manuscrate and the state of the		the miles are a second				
9.Emissic tue Device Per	EX			and the desired control of the contr			and the second s		
8.Fuel Rate: 9.Emission Control (lbs/m)@peak torque Device Per SAE J1930	14.5			and the second s					
7.Fuel Rate: mm/stroke@peak torque	45.6								
6.Torque @ RPM (SEA Gross)	103.3@1900								
5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	18.9								
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	417								
3.BHP@RPM (SAE Gross)	44.3@2700	The state of the s					8 8 8 8	***************************************	
2.Engine Model	D1803-M-T-ET \$3.1 44.3@2700								
1.Engine Code	D1803-M-T-ET01b								