

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0412 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)						
2010	AKBXL01.9FCB	1.857	Diesel	3000						
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION							
Indirect	Diesel Injection, Electron (Some Models	nic Control Module	Truck Refrigeratio	n Units						

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-ł	*.	OPACITY (%)					
POWER CLASS	STANDARD CATEGORY		НС	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK		
8 ≤ kW < 19	Tier 4	STD	N/A	N/A	7.5	6.6	0.40	20	15	50		
		CERT			5.5	1.5	0.19	_ 1	1	2		

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 February 2009.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

KUBOTA Corporation Manufacturer:

Nonroad CI Engine category:

EPA Engine Family: AKBXL01.9FCB

Mfr Family Name: N/A

Process Code:

New Submission

À Attachment

U-R-025-0412

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	EM T	EM, Electronic					All the state of t								Terrorman and annual format and annual				
	7.07	10.1										THE WINDSHIP STATES			in i i terreteriori sustanti s				
7.Fuel Rate: mm/stroke@peak torque	26.5	26.5						***************************************	200 (100 (100 (100 (100 (100 (100 (100 (-			•
6. Torque @ RPM (SEA Gross)	76.6@1700	76.6@1700		STATE OF THE PROPERTY OF THE P	and the second s							A SAME AND ASSESSED OF THE SAME ASSESSED.							
5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	10.1	10.1					And the state of t												
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	26.5	26.5															(2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		
3.BHP@RPM (SAE Gross)	, 24.8@1700	24.8@1700			and the second s						200	24							
2.Engine Model	7-803-M-ET (8-5	V1903-M-ET KW		7	anii innuunii							Andrew Commencer						•	
I.Engine Code	V1903-M-ET01	V1903-M-ET01e												-				r.	