

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0463 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)							
2011	BKBXL01.9FCB	1.857	Diesel 3000								
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION								
Ele	Indirect Diesel Injectronic Control Module (ction, Some Models)	Refrigeration Units, Auxiliary Po	ower Unit							

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	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4	Tier 4 STD		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 January 2010.

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Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

KUBOTA Corporation	Nonroad CI	EPA Engine Family: BKBXL01.9FCB	N/A	
Manufacturer:	Engine category:	PA Engine Family.	Mfr Family Name: N/A	

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	9	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	EM	EM, Electronic										
· .	0102/41/		10.1	10.1								in the state of th		
} .	_	7. Fuel Rate: mm/stroke@peak torque	26.5	26.5										
	_	6. Torque @ RPM (SEA Gross)	76.6@1700	76.6@1700										
Attachmen	page 1 of	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	10.1	10.1	-									
ぎ	pag	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	26.5	26.5										
		3.BHP@RPM (SAE Gross)	24.8@1700	24.8@1700										
Nonroad CI BKBXL01.9FCB	N/A New Submission	2.Engine Model	V1903-M-ET	V1903-M-ET										
Engine category: EPA Engine Family:	Mfr Family Name: Process Code:	1.Engine Code	V1903-M-ET01	V1903-M-ET01e										