

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0436 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	AKBXL02.0FCC	1.999	Diesel 500								
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION								
Ele	Indirect Diesel Injectronic Control Module (ection Some Models)	Compressor, Generator Set, We	elder, Refrigeration 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	EXHAUST (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	7.5 5.5		N/A	N/A	N/A			
		CERT			6.0	1.0	0.18	-					

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 2009.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

KUBOTA Corporation Engine category: Nonroad CI
EPA Engine Family: AKBXL.02.0FCC Manufacturer:

Mfr Family Name: N/A

New Submission Process Code:

Attachment

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Date: 12/16/2009

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	W W W	E E	EM,Electronic								A Comment of the Comm									
	A/N	NA	A/N																	
7.Fuel Rate: mm/stroke@peak torque	A/N	ΑΝ	N/A									A A A A A A A A A A A A A A A A A A A								
6.Torque @ RPM (SEA Gross)	N/A	N/A	N/A	-						-		100 March 100 Ma								The state of the fall and the state of the s
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	13.5	13.3	13.3			-					the channel for the channel of the c			anna ann an Air ann ann an Air ann ann ann ann ann ann ann ann ann an						and the same party of the same
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	33.6	33.1	33.1											and the second s						
3.BHP@RPM (SAE Gross)	33.4@1800	32.6@1800	32.6@1800		•			14 to 16 to	 And the second desirable and the second desira											
2.Engine Model	V2003-M-BG-ET	V2003-M-BG-ET	V2003-M-BG-ET					***************************************										A CONTRACTOR OF THE PROPERTY O	A CONTRACT OF THE CONTRACT OF	
1.Engine Code	V2003-M-BG-ET01	V2003-M-BG-ET02	V2003-M-BG-ET02e												the first of the f	4				