

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0452 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	AKBXL03.6BCD	3.620	Diesel	8000							
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION								
	Indirect Diesel Inje	ection	Tractor, Compressor, Generator Set, 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 POWER CLASS	EMISSION			E	XHAUST (g/kW-		OPACITY (%)					
	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK		
37 ≤ kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50		
		CERT			3.9	1.1	0.22	3	2	7		

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 Manufacturer:

Nonroad Cl Engine category:

EPA Engine Family. AKBXL03.6BCD

Mfr Family Name: N/A

Process Code:

New Submission

Attachment

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9.Emission Control Device Per SAE J193	EM IDI	EM	E	EM	E	EM	E	EM	EM	EM	EM								
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	21.5	20.0	20.0	20.4	20.0	20.4	20.7	19.7	19.7	21.7	20.4								
7.Fuel Rate: mm/stroke@peak torque	0.09	56.0	56.0	57.0	26.0	57.0	58.0	55.0	25.0	57.0	57.0								
6.Torque @ RPM (SEA Gross)	173.3@1600	163.0@1600	163.0@1600	163.0@1600	163.0@1600	163.0@1600	163.0@1600	154.7@1600	154.7@1600	160.6@1700	163.0@1600			-			-		
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	30.8	30.2	29.1	29.1	29.0	28.3	27.5	28.4	28.4	28.3	29.0			-					
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	53.0	52.0	52.0	52.0	54.0	55.0	56.0	53.0	53.0	55.0	54.0								
3.BHP@RPM (SAE Gross)	69.7@2600	66.8@2600	66.0@2500	66.0@2500	65.2@2400	64.5@2300	62.4@2200	62.9@2400	62.9@2400	64.5@2300	65.2@2400								
2.Engine Model	V3600-ET																		
1.Engine Code	V3600-ET01	V3600-ET02	V3600-ET03	V3600-ET04	V3600-ET05	V3600-ET06	V3600-ET07	V3600-ET08	V3600-ET09	V3600-ET10	V3600-ET11		The state of the s					1 (0.1) (0.1)	