KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0447 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	AKBXL02.4FAD	2.434	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT AP	PLICATION
Indirect (Recircu	Diesel Injection, Turboch ulation, Smoke Puff Limit	er (Some Models)	Tractor, 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			E	XHAUST (g/kW-l		OPACITY (%)					
POWER CLASS	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	0.21	5	2	12		

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 Nonroad Cl Engine category: Manufacturer:

AKBXL02.4FAD

EPA Engine Family: Mfr Family Name: **New Submission** Process Code:

Attachment

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	EM,SPL,EGR TADI,TC	FM,EGR	FM,SPL,EGR	EM,EGR	F EM,SPL,EGR	FM,EGR	FM,SPL,EGR	EM,EGR				,			Account of the second of the s			
7.Fuel Rate: mm/stroke@peak 8.Fuel Rate: torque (bs/hr)@peak to	48.7 17.4	46.8 16.7	46.8 16.7	45.8 16.4	45.8 16.4	46.8 16.7	46.8	46.8 16.7										
HP 6.Torque @ RPM y) (SEA Gross)	141.9@1600	136.7@1600	136.7@1600	133.7@1600	133.7@1600	136.7@1600	136.7@1600	136.7@1600						Mark Community of the C				
4. Fuel Rate: 5. Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesels only) (for diesels only)	44.6 26.9	43.8 26.4	43.8 26.4	44.1 26.6	44.1	42.1 24.5	42.1 24.5	43.1 26.0										4
3.BHP@RPM m (SAE Gross)	59.7@2700	58.6@2700	58.6@2700	59.0@2700	59.0@2700	54.6@2600	54.6@2600	57.7@2700	-									
2.Engine Model	V2403-M-T-ET	V2403-M-T-ET	V2403-M-T-ET	V2403-M-T-ET	V2403-M-T-ET	V2403-M-T-ET	V2403-M-T-ET	V2403-M-T-ET										
l.Engine Code	V2403-M-T-ET01b	V2403-M-T-ET02	V2403-M-T-ET02b	V2403-M-T-ET03	V2403-M-T-ET03b	V2403-M-T-ET04	V2403-M-T-ET04b	V2403-M-T-ET05		7								