KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0495 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 LIF (hours)				
2011	BKBXL02.4FAD	2.434	Diesel 8000				
	FEATURES & EMISSION C		TYPICAL EQUIPMENT APPLICATION				
Indirect I Recircu	Diesel Injection, Turbochaulation, Smoke Puff Limite	arger, Exhaust Gas 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):

POWER CLASS	EMISSION STANDARD CATEGORY			Ε	XHAUST (g/kW-l		OPACITY (%)			
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 <u><</u> kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
-		CERT			3.9	0.9	0.16	5	2	13

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

Annette Hebert, Chief

Mobile Source Operations Division

day of December 2010.

Engine Model Summary Form

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525-0495	Date: 12/2/2010 Complete: 11/29/2010	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	EM TOTA	EM	EM,SPL	EM	EM,SPL	EW	EM,SPL	EM	EM	•
EO# U-R-025-0495		8.Fuel Rate: (lbs/hr)@peak torq	19.5	16.3	16.3	16.0	16.0	16.0	16.0	17.1	16.9	
	100 J	7.Fuel Rate: mm/stroke@peak torque	48.5	45.7	45.7	44.8	44.8	44.7	44.7	42.5	42.1	
	Ja	6.Torque @ RPM (SEA Gross)	128.8@1800	125.4@1600	125.4@1600	123.0@1600	123.0@1600	122.7@1600	122.7@1600	121.8@1800	120.7@1800	
اد	page	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	29.2	28.3	28.3	24.3	24.3	24.4	24.4	26.7	25.3	
Attachment		4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	48.4	46.9	46.9	41.8	41.8	40.5	40.5	44.2	43.5	
tion		3.BHP@RPM (SAE Gross)	61.0@2700	59.0@2700	59.0@2700	51.0@2600	51.0@2600	51.0@2700	51.0@2700	59.0@2700	55.9@2600	,
KUBOTA Corporation Nonroad CI BKBXL02.4년AD N/A New Submission		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	V2403-M-T-ET	
Manufacturer: Engine category:	EPA Engine Family. Mfr Family Name: Process Code:	1.Engine Code	V2403-M-T-ET01	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	V2403-M-T-ET06	