California Environmental Protection Agency

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)		
2012	CKBXL02.4HAD	2.434	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION				
Indirect Diesel Injection, Turbocharger, Smoke Puff Limiter (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 non-methane hydrocarbon (NMHC), 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		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 <u><</u> kW < 56	Interim Tier 4	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

_ day December 2011.

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Form

KUBOTA Corporation Manufacturer: Nonroad Cl Engine category: EPA Engine Family: CKBXL02.4HAD Mfr Family Name: N/A Process Code: New Submission

Attachment page 1 of 1

EO# U-R-025-0550

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (Ibs/hr)@peak torque	9.Emission Control Device Per SAE J1930
V2403-M-T-ET01	V2403-M-T-ET	61.0@2700	48.4	29.2	128.8@1800	48.5	19.5	EM I
V2403-M-T-ET02	V2403-M-T-ET	59.0@2700	46.9	28.3	125.4@1600	45.7	16.3	EM
V2403-M-T-ET02b	V2403-M-T-ET	59.0@2700	46.9	28.3	125.4@1600	45.7	16.3	EM,SPL
V2403-M-T-ET03	V2403-M-T-ET	51.0@2600	41.8	24.3	123.0@1600	44.8	16.0	EM
V2403-M-T-ET03b	V2403-M-T-ET	51.0@2600	41.8	24.3	123.0@1600	44.8	16.0	EM,SPL
V2403-M-T-ET04	V2403-M-T-ET	51.0@2700	40.5	24.4	122.7@1600	44.7	16.0	EM
V2403-M-T-ET04b	V2403-M-T-ET	51.0@2700	40.5	24.4	122.7@1600	44.7	16.0	EM,SPL
V2403-M-T-ET05	V2403-M-T-ET	59.0@2700	44.2	26.7	121.8@1800	42.5	17.1	EM
V2403-M-T-ET06	V2403-M-T-ET	55.9@2600	43.5	25.3	120.7@1800	42.1	16.9	EM
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