California Environmental Protection Agency AIR RESOURCES BOARD	KUBOTA Corporation	EXECUTIVE ORDER U-R-025-0491 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)
2011	BKBXL02.4FCD	1.826, 2.434	Diesel	5000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Indirect Diesel Injection, Electronic Control Module (Some Models)	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 STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT	--	--	6.4	0.9	0.21	4	5	6

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 2 day of December 2010.

Annette Hebert

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

EO # U-R-025-0491
Date: 12/2/2010
Complete: 11/29/2010

Attachment

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Manufacturer: **KUBOTA Corporation**
Engine category: **Nonroad CI**
EPA Engine Family: **BKBXL02.4FCD**
Mfr Family Name: **N/A**
Process Code: **New Submission**

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: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
D1803-M-ET01	D1803-M-ET	37.4@2700	35.2	15.9	85.3@1600	37.8	10.1	EM
D1803-M-ET02	D1803-M-ET	30.6@2200	33.3	12.3	83.8@1600	37.5	10.1	EM
D1803-M-ET03	D1803-M-ET	36.1@2600	34.8	15.2	85.3@1600	37.8	10.1	EM
D1803-M-ET04	D1803-M-ET	34.7@2500	34.7	14.5	85.3@1600	37.8	10.1	EM
D1803-M-ET05	D1803-M-ET	33.3@2400	33.8	13.6	83.8@1600	37.5	10.1	EM
D1803-M-ET06	D1803-M-ET	31.9@2300	33.5	12.9	83.8@1600	37.5	10.1	EM
D1803-M-ET07	D1803-M-ET	35.7@2700	33.5	15.2	85.3@1500	37.8	9.5	EM
D1803-M-ET08	D1803-M-ET	36.6@2700	34.4	15.6	85.3@1500	37.8	9.5	EM
V2403-M-ET01	V2403-M-ET	48.9@2700	34.4	20.8	117.6@1500	39.1	13.1	EM
V2403-M-ET02	V2403-M-ET	48.9@2700	34.4	20.8	117.0@1600	39.0	13.9	EM
V2403-M-ET03	V2403-M-ET	41.8@2200	34.4	16.9	115.0@1600	38.9	13.9	EM
V2403-M-ET04	V2403-M-ET	48.9@2600	35.8	20.8	117.0@1600	39.0	13.9	EM
V2403-M-ET05	V2403-M-ET	47.6@2500	35.6	19.9	117.0@1600	39.0	13.9	EM
V2403-M-ET06	V2403-M-ET	45.7@2400	35.1	18.8	115.0@1600	38.9	13.9	EM
V2403-M-ET07	V2403-M-ET	43.9@2300	34.7	17.8	115.0@1600	38.9	13.9	EM
V2403-M-ET08e	V2403-M-ET	36.7@1800	37.4	15.0	103.0@1600	35.5	12.7	EM,Electronic
V2403-M-ET09	V2403-M-ET	48.9@2700	34.4	20.8	116.5@1500	38.9	13.0	EM
V2403-M-ET10	V2403-M-ET	48.3@2700	34.2	20.6	116.3@1500	38.7	13.0	EM