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 2012 CKBXL02.4GAD		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours) 5000		
		2.434	Diesel			
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
Me	chanical Direct Injection,	Turbocharger	Loaders, 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 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 STANDARD CATEGORY		EXHAUST (g/kW-hr)				OPACITY (%)			
POWER CLASS			NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
19 <u>&lt;</u> kW < 37	Interim Tier 4	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT			6.6	0.8	0.16	2	1	5

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 2011.

Annette Hebert, Chief

Mobile Source Operations Division

## **Engine Model Summary Form**

Manufacturer:

**KUBOTA Corporation** 

Engine category:

Nonroad Cl

EPA Engine Family: CKBXL02.4GAD

**New Submission** 

Mfr Family Name: N/A

Process Code;

Attachment
page 1 of 1

E0#U-R-0>5-0546

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: 9 (lbs/hr)@peak torque De	.Emission Control vice Per SAE J1930
V2403-M-DI-T-ET01	V2403-M-DI-T-ET	48.9@2200	38.0	18.7	140.1@1100	42.7	10.5	EM, DDI
V2403-M-DI-T-ET02	V2403-M-DI-T-ET	48.9@2400	37.0	19.9	135.0@1200	41.0	11.0	EM
V2403-M-DI-T-ET03	V2403-M-DI-T-ET	48.9@2300	38.1	19.6	135.0@1200	41.0	11.0	ЕМ
/2403-M-DI-T-ET04	V2403-M-DI-T-ET	48.9@2200	39.2	19.3	135.0@1200	41.0	11.0	EM 🗸
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