## **KUBOTA Corporation**

EXECUTIVE ORDER U-R-025-0500 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	BKBXL03.6BCD	3.620	Diesel	8000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Indirect Diesel Injection			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 (%)		
			нс	NOx	NMHC+NOx	co	₽M	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT			3.5	1.5	0.18	6	2	19

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 2010.

Annette Hebert, Chief

Mobile Source Operations Division

## **Engine Model Summary Form**

Manufacturer:

**KUBOTA Corporation** 

Engine category:

Nonroad Cl

EPA Engine Family:

BKBXL03.6BCD

Mfr Family Name: N/A

Process Code:

**New Submission** 

Attachment

E0# U-R-025-0500 Date: 12/2/2010 Complete: 11/29/2010

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: (fbs/hr)@peak torque	9.Emission C Device Per SA	Control E J1930
V3600-ET01	V3600-ET	69.7@2600	53.0	30.8	173.3@1600	60.0	21.5	EM	IDE
V3600-ET02	V3600-ET	66.8@2600	52.0	30.2	163.0@1600	56.0	20.0	EM	1
V3600-ET03	V3600-ET	66.0@2500	52.0	29.1	163.0@1600	56.0	20.0	EM	
V3600-ET04	V3600-ET	66.0@2500	52.0	29.1	163.0@1600	57.0	20.4	EM	
V3600-ET05	V3600-ET	65.2@2400	54.0	29.0	163.0@1600	56.0	20.0	EM	
V3600-ET06	V3600-ET	64.5@2300	55.0	28.3	163.0@1600	57.0	20.4	EM	
V3600-ET07	V3600-ET	62.4@2200	56.0	27.5	163.0@1600	58.0	20.7	EM	
V3600-ET08	V3600-ET	62.9@2400	53.0	28.4	154.7@1600	55.0	19.7	EM	
V3600-ET09	V3600-ET	62.9@2400	53.0	28.4	154.7@1600	55.0	19.7	EM	
V3600-ET10	V3600-ET	64.5@2300	55.0	28.3	160.6@1700	57.0	21.7	EM	
V3600-ET11	V3600-ET	65.2@2400	54.0	29.0	163.0@1600	57.0	20.4	EM	J
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