

 AIR RESOURCES BOARD	KUBOTA Corporation	EXECUTIVE ORDER U-R-025-0502 New Off-Road Compression-Ignition Engines
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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	BKBXL03.6BAD	3.620	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection, Turbocharger, Exhaust Gas Recirculation, Smoke Puff Limiter (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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.1	0.7	0.21	3	1	7

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 15 day of December 2010.



Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: KUBOTA Corporation
Engine category: Nonroad CI
EPA Engine Family: BKBXL03.6BAD
Mfr Family Name: N/A
Process Code: New Submission

Attachment

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EO# U-R-025-0502

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: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
V3600-T-ET01b	V3600-T-ET	85.2@2600	66.0	38.4	221.3@1600	75.5	27.0	EM,SPL,EGR
V3600-T-ET02	V3600-T-ET	84.5@2600	65.0	37.8	218.3@1600	75.0	26.8	EM,EGR
V3600-T-ET02b	V3600-T-ET	84.5@2600	65.0	37.8	218.3@1600	75.0	26.8	EM,SPL,EGR
V3600-T-ET03	V3600-T-ET	83.8@2500	66.5	37.2	218.3@1600	75.0	26.8	EM,EGR
V3600-T-ET03b	V3600-T-ET	83.8@2500	66.5	37.2	218.3@1600	75.0	26.8	EM,SPL,EGR
V3600-T-ET04	V3600-T-ET	83.5@2400	67.0	35.9	218.3@1600	75.0	26.8	EM,EGR
V3600-T-ET04b	V3600-T-ET	83.5@2400	67.0	35.9	218.3@1600	75.0	26.8	EM,SPL,EGR
V3600-T-ET05	V3600-T-ET	79.4@2300	66.0	33.9	218.3@1600	75.0	26.8	EM,EGR
V3600-T-ET05b	V3600-T-ET	79.4@2300	66.0	33.9	218.3@1600	75.0	26.8	EM,SPL,EGR
V3600-T-ET06	V3600-T-ET	76.6@2200	64.0	31.5	218.3@1600	75.0	26.8	EM,EGR
V3600-T-ET06b	V3600-T-ET	76.6@2200	64.0	31.5	218.3@1600	75.0	26.8	EM,SPL,EGR
V3600-T-ET07	V3600-T-ET	84.5@2600	65.0	37.8	208.7@1600	71.5	25.6	EM,EGR
V3600-T-ET07b	V3600-T-ET	84.5@2600	65.0	37.8	208.7@1600	71.5	25.6	EM,SPL,EGR

IDI, TC

