

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0537 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)			
2012	CKBXL01.7BCD	1.261, 1.681	Diesel				
	FEATURES & EMISSION			TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ection	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	EMISSION		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 <u><</u> kW < 37	Interim Tier 4	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT			5.1	1.0	0.21	6	4	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 of December 2011.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer:

KUBOTA Corporation

Engine category:

Nonroad Cl

EPA Engine Family: CKBXL01.7BCD

Mfr Family Name: N/A

New Submission Process Code:

Attachment page 1 of 1

E0# U-R-0>5-0537

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
D1305-ET01	D1305-ET	29.6@3000	27.3	13.7	63.4@1800	29.3	8.8	EM IDI
D1305-ET02	D1305-ET	29.1@3000	26.2	13.2	59.1@2000	27.4	9.2	EM)
D1305-ET03	D1305-ET	27.2@2800	25.7	12.1	59.1@2000	27.4	9.2	EM /
D1305-ET04	D1305-ET	27.2@2800	25.7	12.1	59.1@1900	27.4	8.7	EM
D1305-ET05	D1305-ET	26.3@2700	25.4	11.5	59.1@2000	27.4	9.2	EM
D1305-ET06	D1305-ET	25.6@2600	25.4	11.1	59.1@1700	27.6	7.9	EM
V1705-ET01	V1705-ET	38.8@3000	26.2	17.6	78.8@2000	27.4	12.3	EM √
				A Company				