

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0568 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)			
2013	DKBXL01.5BCB	1.124, 1.498	Diesel	3000			
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION				
	Indirect Diesel Inje	ection	Loader, Tractor, Compressor, Generator Set, and 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		НС	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
8 <u><</u> kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT			5.8	1.4	0.21	5	3	12

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).

BE IT FURTHER RESOLVED: The listed engine family is conditionally certified pending submission of additional test data to verify compliance with useful-life emission standards. The manufacturer has until August 31, 2012 to provide test data to confirm or correct the certification emissions levels on this conditional certification. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified pursuant to Health and Safety Code Section 43153 and subject to civil penalties pursuant to Health and Safety Code Section 43154.

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 July 2012.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer:

KUBOTA Corporation

Engine category:

Nonroad Cl

EPA Engine Family: DKBXL01.5BCB

Mfr Family Name: N/A

Process Code: **New Submission**

Attachment

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.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 D	9.Emission Collevice Per SAE	
D1105-EF01	D1105-EF	24.8@3000	22.3	11.2	54.6@1800	26.0	7.8	EM :	IDI
D1105-EF02	D1105-EF	24.8@3000	22.3	11.2	52.7@2200	25.4	9.4	EM	1
D1105-EF03	D1105-EF	24.3@2800	22.9	10.8	53.4@1900	25.4	8.1	EM	
D1105-EF04	D1105-EF	22.5@2700	21.9	9.9	50.5@1900	24.2	7.7	EM	
D1105-EF05	D1105-EF	21.9@2600	21.7	9.5	52.9@1700	25.5	7.3	EM	
D1105-EF06	D1105-EF	21.3@2500	21.9	9.2	52.6 @ 1700	25.4	7.2	EM	
D1105-EF07	D1105-EF	20.9@2400	22.2	8.9	52.7@1600	25.4	6.8	EM	
D1105-EF08	D1105-EF	19.0@2250	21.4	8.1	50.7@1500	24.6	6.2	EM	
D1105-EF09	D1105-EF	19.0@2200	21.9	8.1	52.7@1600	25.4	6.8	EM	
V1505-EF01	V1505-EF	24.8@2300	20.4	10.5	68.3@1700	24.0	9.1	EM	
V1505-EF02	V1505-EF	24.4@2250	20.6	10.4	65.3@1700	22.8	8.7	EM	V
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