KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0599 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)		
2014	EKBXL.719KCC	0.479, 0.719	Diesel			
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ection	Generator Set, Light Tower, and Welder			

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			NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
kW < 19	Tier 4 Final	STD.	N/A	N/A	7.5	6.6	0.40	N/A	N/A	N/A
		CERT			6.0	2.5	0.21			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005.

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 2013.

Erik White, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer:

KUBOTA Corporation

Engine category:

Nonroad Cl

EPA Engine Family:

EKBXL.719KCC

Mfr Family Name:

N/A

Process Code:

New Submission

Attachment page 1 of 1

E0#U-R-025-0599 Date: 11/21/2013

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
D722-D2-EF01	D722-D2-EF	20.5@3600	15.2	9.2	29.9@3600	15.2	9.2	EM, IFI
Z482-D2-EF01	Z482-D2-EF	14.1@3600	15.4	6.2	20.6@3600	15.4	6.2	EM, IFI
Z482-D2-EF02	Z482-D2-EF	13.3@3600	15.2	6.1	19.4@3600	15.2	6.1	EM, IFI
Z482-D2-EF03	Z482-D2-EF	12.9@3600	14.7	5.9	18.8@3600	14.7	5.9	EM, IFI
Z482-D2-EF04	Z482-D2-EF	12.3@3600	14.2	5.7	18.0@3600	14.2	5.7	EM, IFI
Z482-D2-EF05	Z482-D2-EF	9.7@2600	14.3	4.2	19.5@2600	14.3	4.2	EM, IFI
Z482-D2-EF06	Z482-D2-EF	11.1@3000	14.6	4.9	19.5@3000	14.6	4.9	EM, IFI

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EF05	Z482-D2-EF	9.7@2600	14.3	4.2	19.5@2600	14.3	4.2	EM, IFI
EF06	Z482-D2-EF	11.1@3000	14.6	4.9	19.5@3000	14.6	4.9	EM, IFI
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