



California Environmental Protection Agency

**AIR RESOURCES BOARD**

**KUBOTA Corporation**

**EXECUTIVE ORDER U-R-025-0523**

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	CKBXL719KCC	0.479, 0.719	Diesel	3000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>				
Indirect Diesel Injection		<b>TYPICAL EQUIPMENT APPLICATION</b>		
		Generator Set, Welder, Air Conditioner for Trucks		

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 (%)		
		HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
0 ≤ kW < 19	Tier 4 Final	N/A	N/A	7.5	6.6	0.40	N/A	N/A	N/A
	CERT	--	--	6.8	2.4	0.22	--	--	--

**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 16<sup>TH</sup> day of November 2011.

*M. Hebert FOR A&M*

Annette Hebert, Chief  
Mobile Source Operations Division

**Engine Model Summary Form**

Manufacturer: KUBOTA Corporation  
 Engine category: Nonroad CI  
 EPA Engine Family: CKBXL719KCC  
 Mfr Family Name: N/A  
 Process Code: New Submission

*Attachment*

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*11/4/2011*

*EO# U-R-025-0523*

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: mmv/stroke@peak torque    8. Fuel Rate: (lbs/hr)@peak torque Device Per SAE J1930    9. Emission Control

D722-D2-ET01	D722-D2-ET	20.5@3600	15.2	9.2	N/A	N/A	N/A	EM	IDI
D722-D2-ET02	D722-D2-ET	19.2@3600	14.3	8.6	N/A	N/A	N/A	EM	
D722-D2-ET03	D722-D2-ET	16.6@3000	14.1	7.1	N/A	N/A	N/A	EM	
Z482-D2-ET01	Z482-D2-ET	13.4@3600	15.4	6.2	N/A	N/A	N/A	EM	
Z482-D2-ET02	Z482-D2-ET	12.3@3600	14.2	5.7	N/A	N/A	N/A	EM	
Z482-D2-ET03	Z482-D2-ET	9.7@2600	14.4	4.2	N/A	N/A	N/A	EM	
Z482-D2-ET04	Z482-D2-ET	11.1@3000	14.6	4.9	N/A	N/A	N/A	EM	
Z482-D2-ET05	Z482-D2-ET	12.9@3600	14.7	5.9	N/A	N/A	N/A	EM	
Z482-D2-ET06	Z482-D2-ET	13.3@3600	15.2	6.1	N/A	N/A	N/A	EM	
Z482-D2-ET07	Z482-D2-ET	9.7@2600	14.3	4.2	N/A	N/A	N/A	EM	