

## **KUBOTA Corporation**

EXECUTIVE ORDER U-R-025-0427

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)						
2010	AKBXL01.5BCC	1.123, 1.498	Diesel 30							
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION							
	Indirect Diesel Inje	ection	Generator Set, Light Tower							

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):

POWER ST	EMISSION			E	EXHAUST (g/kw-l		OPACITY (%)					
	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK		
	Tier 4	STD	N/A	N/A	7.5	6.6	0.40	N/A	N/A	N/A		
		CERT			5.2	1.0	0.21					

**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.

\_\_\_\_\_ day of December 2009.

Annette Hebert, Chief

Mobile Source Operation

Mobile Source Operations Division

## **Engine Model Summary Form**

KUBOTA Corporation Manufacturer:

Nonroad Cl Engine category: EPA Engine Family: AKBXL01.5BCC

Mfr Family Name: N/A

**New Submission** Process Code:

Attachment

E0# U-8-025-0427 6002/51/21

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ontrol E J193	H	•			7																
9.Emission C Device Per SAE	EM	EM	EM	E	EM	-									-						
8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torque Device Per SAE J1930	N/A	N/A	N/A	NA	N/A						The state of the s										
7.Fuel Rate: mm/stroke@peak torque	N/A	N/A	N/A	NA	N/A				-									vi,			
6.Torque @ RPM (SEA Gross)	NA	N/A	N/A	N/A	N/A						The second secon					-	-				
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	7.1	5.8	9.7	9.2	7.6						in a second seco										
4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	23.6	22.9	24.0	22.9	22.6							The state of the s		•							
3.BHP@RPM (SAE Gross)	16.9@1800	13.7@1500	23.6@1800	22.0@1800	18.1@1500																
2.Engine Model	D1105-BG-ET	D1105-BG-ET	V1505-BG-ET	V1505-BG-ET	V1505-BG-ET																
1.Engine Code	D1105-BG-ET01	D1105-BG-ET02	V1505-BG-ET01	V1505-BG-ET02	V1505-BG-ET03																