

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0323 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)
2008	8KBXL01.5BAD	1.123, 1.498	Diesel	5000
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APP	
ir	ndirect Diesel Injection, T Smoke Puff Limiter (Sor	urbocharger, ne Models)	Loader, Other OEM Pro	oducts

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			E	XHAUST (g/kW-	hr)		OF	PACITY (%	1)
POWER CLASS	STANDARD CATEGORY		НС	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT			5.6	0.8	0.16	6	1	18

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 April 2007.

Executed at El Monte, California on this

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: KUBOTA Corporation

Engine category: Nonroad CI

EPA Engine Family: 8KBXL01.5BAD

Mfr Family Name: N/A

Process Code: Running Change

Atlachment

0-2-026-0323

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	
17.	32.9@3000	28.2	14.2	65.0@2000	31.0	10.4	EN 19	0
	32.9@3000	28.2	14.2	65.0@2000	31.0	10.4	EM,SPL	
	31.0@2850	27.6	13.2	63.5@2000	30.3	10.2	A	
	31.0@2850	27.6	13.2	63.5@2000	30.3	10.2	EM,SPL	A Jan
	44.3@3000	28.3	19.0	90.9@2000	31.5	*	3	
	44.3@3000	28.3	19.0	90.9@2000	31.5	14.1	EM,SPL	
	42.0@2850	28.0	8.21	90.5@2000	31.4	14.0		
	42.0@2850	28.0	17.8	90.5@2000	31.4	14.0	EM,SPL	
	44.3@3000	28.3	19.0	87.5@2000	30.0	13.4		1000
	44.3@3000	28.3	19.0	87.5@2000	30.0	13.4	EM,SPL	
	38.4@2400	28.9	15.5	90.9@2000	30.3	13.5	EM	
	38.4@2400	28.9	15.5	90.9@2000	30.3	13.5	EM,SPL	
ŵ.	44.3@3000	28.3	19.0	78.3@2000	26.9	12.0	Ma .	
	44.3@3000	28.3	19.0	78.3@2000	26.9	12.0	EM,SPL	- Ş
	41.0@2800	27.8	**************************************	87.5@2000	30.0	13.4	E	
	36.3@2500	27.2	15.2	80.0@1900	27.5	11.7	EM	Ŷŧ=