

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0265-1 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) 5000			
2007	7KBXL02.2RCD	2.216	Diesel				
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Ele	Direct Diesel Injec ectronic Control Module (ction, some models)	Other OEM Products				

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	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK	
19 ≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50	
		CERT			6.1	1.4	0.21	2	2	2	

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.

This Executive Order hereby supersedes Executive Order U-R-025-0265 dated April 28, 2006.

Executed at El Monte, California on this

Annette Hebert, Chief

Mobile Source Operations Division

day of April 2007.

Engine Model Summary Form

KUBOTA Corporation Manufacturer:

EPA Engine Family: 7KBXL02.2RCD Nonroad CI Engine category:

Mfr Family Name: N/A

Process Code:

Running Change

FO# U-R-025-0265-1

	H			Section 1				+	137 120	
8.Fuel Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930	EM D	EM	EM,Electronic EC	EM	EΝ	EM,Electronic EC	ЕМ	EM,Electronic EC		
8.Fuel Rate: (lbs/hr)@peak torque	11.9	11.8	11.8	11.3	10.0	10.0	0.01	10.0		
7.Fuel Rate: mm/stroke@peak torque	29.5	29.3	29.3	31.7	29.7	29.7	29.7	29.7		
6.Torque @ RPM (SEA Gross)	94.3@1800	93.7@1800	93.7@1800	101.0@1600	93.5@1500	93.5@1500	93.5@1500	93.5@1500	The state of the s	
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	14.5	14.5	14.5	12.5	12.1	12.1	11.4	11.4		
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	29.5	29.5	29.5	31.0	30.0	30.0	30.0	30.0		
3.BHP@RPM (SAE Gross)	37,8@2200	37.8@2200	37,8@2200	33.4@1800	32.1@1800	32.1@1800	30.3@1700	30.3@1700		
2.Engine Model	V2203L-DI-ES	V2203L-DI-ES	V2203L-DI-ES	V2203L-DI-ES	V2203L-DI-ES	V2203L-DI-ES	V2203L-DI-ES	V2203L-DI-ES		مري دهاد
1.Engine Code	V2203L-DI-ES01	V2203L-DI-ES02	V2203L-DI-ES02e	V2203L-DI-ES03	V2203L-DI-ES04	V2203L-DI-ES04e	V2203L-DI-ES05	V2203L-DI-ES05e		A New W