

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0243 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)				
2006	6KBXL02.2ECD	2.197	Diesel	5000				
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION					
Direct	Diesel Injection, Electron	ic Control Module	Refrigeration Unit					

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 STANDARD CATEGORY			E	XHAUST (g/kW-l	OPACITY (%)				
POWER			нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT			6.8	1.5	0.31	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.

Repharl Susmait

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 2005.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Surmary Form

Attachment u-R-025-0243

Manufacturer: KUBOTA Corporation

Engine category: Nonroad Cl

EPA Engine Family: 6KBXL02.2ECD

Mfr Family Name: N/A

Process Code: New Submission

5	.		Y92'5			13.0%	X.				
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	VIVA VIV	ANN		ALIA MIN	NO.	**		Electronic EC	Flectronic EC		AND CANADA CONTRACTOR OF THE C
8.Fuel Rate: (tbs/hr)@peak torque		4.	7.11	11.2	R'R	9.1	9.1	11.2	δ.δ.	200	
7.Fuel Rate: mm/stroke@peak torque	5.1.5	31.9	41.6	31.4	30,7	29.2	29.2	31.4	7.06	OC.	SOCIETY CONTRACTOR OF THE STATE
6.Torque @ RPM (SEA Gross)	100,3@1600	100.3@1600	97.7@1600	97.7@1600	96,3@1300	90.6@1400	90.6@1400	07.7/6/16/10	0001001110	96.3@1300	
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	13.8	15.0	14.9	13.7	12.1	13.2	(2.1	O.Y.	14 .9	12.1	
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	31.6	30.4	30.2	31.4	31.8	30.3	2004	00.1	30.7	31.8	
3.BHP@RPM (SAE Gross)	36,6@1950	38.8@2200	37.8@2200	35.9@1950	24 R@4700	24.0@11.55	04.4@1999 67 7 04900	പാത്രി തവ	37.8@2200	31.8@1700	
1.Engine Code 2.Engine Model	V2203-DI-ES	V2203-DI-ES	V9203-DI-ES	V2203-DI-ES		1000	VZZU3-DI-E3	, V2203-DI-ES	V2203-M-DI-ES	V2203-M-DI-ES	
1.Engine Code	V2203-DI-ES01	V2203-DI-ES02	Angna-DLES03	V2203-DI-ES04		V2203-UI-E303	V2203-DI-E506	V2203-DI-ES07	V2203-M-DI-ES01e	VP203-M-DI-ES02e	