

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0099 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 engine and emission control system 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)
2003	3KBXL01.3BCD	1.001, 1.335	Diesel	5000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
	Indirect Diesel Inje	ection	Loader, Other Industri	al Equipment

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				XHAUST (g/kw-l			OF	PACITY (%	6)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+Nox	co	PM	ACCEL	LUG	PEAK
19 ≤ KW < 37	Tier 1	STD	N/A	N/A	9.5	5.5	0.80	20	15	50
		CERT			5.1	1.6	0.53	11	9	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.

Executed at El Monte, California on this ______ day of December 2002.

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Allen Lyons, Chief

Mobile Source Operations Division

Engine Model St mary Form

Attachment | of |
Manufacturer: KUBOTA Corporation

Engine category: Nonroad Cl

EPA Engine Family. 3KBXL01.3BCD

Mfr Family Name: N/A

Process Code: New Submission

U-12-025-0099

***	11.0	22.3	58.6@2200	13.1	21.0	28.8@2800	V1305-E	_
**	8.9	19.8	54.4@2000	11.1	19.8	25.3@2500	V1305-E	
₹	8.2	21.5	60.0@1700	10.6	18.2	25.2@2600 fx	V1305-E	
₹	9.1	21.5	59.7@1900	10.9	18.7	25.9@2600	V1305-E	
₹	9.3	21.8	59.5@1900	11.5	19.0	27.2@2700	V1305-E	
**	12.3	21.2	60.0@2600	16.1	20.0	36.5@3600 17.2	V1305-E	:
₽	11.1	22.6	61.0@2200	13.7	20.5	30.8@3000	V1305-E	
** +0T +	9.5	21.9	44.7@2600	12.5	20.7	27.4@3600	D1005-E	
9.Emission Control levice Per SAE J1930	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	/.Fuel Hate: mm/stroke@peak torque	6.Torque @ RPM (SEA Gross)	5.Fuel Hate: (lbs/hr) @ peak HP (for diesels only)	4.Fuel Hate: mm/stroke @ peak HP (for diesel only)	3.BHP@RPM m (SAE Gross) ہیں	2.Engine Model	$\dot{\wp}$