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		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2005	5KBXL02.2FCC	1.647, 2.197	Diesel	5000		
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
Elec	Indirect Diesel Inje ctronic Control Module (:	ction, some models)	Generator Set			

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 POWER	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
CLASS			НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
8 <u>&lt;</u> kW < 19	Tier 2	STD	N/A	N/A	7.5	6.6	0.80	N/A	N/A	N/A
19 <u>≤</u> kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	N/A	N/A	N/A
		CERT			5.8	1.7	0.32			

**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 October 2004.

ons, Chief

Mobile Source Operations Division

Engine Model St mary Form

Manufacturer:KUBOTA CorporationEngine category:Nonroad ClEPA Engine Family5KBXL02.2FCCMfr Family Name:N/AProcess Code:New Submission

Attachment 1 og 1 U-R-025-0195

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9.Emission Control Device Per SAE J1930	H SH-M	¥ N	Electronic EC	-N/N-	-11/1-	<b>AIA</b>	N/A-	- NA-
8.Fuel Rate: (lbs/hr)@peak torque	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7.Fuel Rate: mm/stroke@peak torque	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6.Torque @ RPM (SEA Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only)	11.3	9.4	11.3	15.2	12.3	14.6	12.2	14.3
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	37.5	37.2	37.5	37.8	30.5	36.3	36.3	35.6
	س 27.1@1800	5-622.3@1500	27.1@1800	7, 737.1@1800	31.6@1800	36.1@1800	29.8@1500	35.4@1800
3.BHP@RPM 2.Engine Model(SAE Gross)	D1703-BG-ES FW 27.1@1800	D1703-BG-ES 16-622.3@1500	D1703-M-BG-ES 27.1@1800	V2203-BG-ES 27,737.1@1800	V2203-BG-ES	V2203-BG-ES	V2203-BG-ES	V2203-BG-ES
1.Engine Code	D1703-BG-ES01	D1703-BG-ES02	D1703-M-BG-ES01e	V2203-BG-ES01	V2203-BG-ES02	V2203-BG-ES03	V2203-BG-ES04	V2203-BG-ES05