



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)
2005	5KBXL01.0BCB	0.898, 1.001	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			Pump, Other Industrial 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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 2	STD	N/A	N/A	7.5	6.6	0.80	20	15	50
		CERT	--	--	4.7	1.2	0.14	6	3	14

**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 28<sup>TH</sup> day of October 2004.

Allen Lyons, Chief  
Mobile Source Operations Division

# Engine Model Summary Form

**Manufacturer:** KUBOTA Corporation  
**Engine category:** Nonroad CI  
**EPA Engine Family:** 5KBXL01.0BCB  
**Mfr Family Name:** N/A  
**Process Code:** New Submission

Attachment 1 of 1  
 U-R-025-0179

1. Engine Code	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
✓ D1005-ES01	D1005-ES	23.5@3000	20.5	10.3	46.3@2200	22.6	8.3	N/A FDI
D1005-ES02	D1005-ES	21.6@2800	21.0	9.9	44.0@2200	22.3	8.2	N/A
D1005-ES03	D1005-ES	19.8@2700	19.1	8.6	44.5@1900	22.2	7.1	N/A
D1005-ES04	D1005-ES	19.4@2600	18.7	8.2	45.6@1700	22.1	6.3	N/A
D1005-ES05	D1005-ES	19.0@2500	19.8	8.3	40.8@2000	19.8	6.6	N/A
D905-ES01	D905-ES	20.8@3000	18.3	9.2	41.2@2200	20.1	7.4	N/A
D905-ES02	D905-ES	20.7@3200	16.9	9.1	39.7@2400	19.8	8.0	N/A
D905-ES03	D905-ES	12.6 16.9@2600	16.7	7.3	39.8@1700	19.7	5.6	N/A
D905-ES04	D905-ES	18.8@2700	17.9	8.1	40.5@1900	19.9	6.3	N/A
D905-ES05	D905-ES	18.5 24.8@3600	18.3	11.0	40.3@2600	19.3	8.4	N/A