



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)
2007	7KBXL01.1BCB	1.123	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			Riding Mower, Commercial Turf, 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	--	--	6.6	1.3	0.21	4	3	8

**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 21<sup>st</sup> day of December 2006.

  
for Annette Hebert, Chief  
Mobile Source Operations Division

# Engine Model Summary Form

U-R-025-0277

**Manufacturer:** KUBOTA Corporation  
**Engine category:** Nonroad CI  
**EPA Engine Family:** 7KBL01.1BCB  
**Mfr Family Name:** N/A  
**Process Code:** Running Change

Attachment

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
D1105-ES01	D1105-ES	21.9@2600	21.7	9.5	52.9@1700	25.5	7.3	EM
D1105-ES02	D1105-ES	22.5@2700	21.9	9.9	50.5@1900	24.7	7.9	EM
D1105-ES03	D1105-ES	22.3@2700	21.6	9.8	50.9@1900	24.8	7.9	EM
D1105-ES04	D1105-ES	21.3@2500	21.9	9.2	52.6@1700	25.4	7.2	EM
D1105-ES05	D1105-ES	22.8@2500	22.8	9.6	53.5@1900	25.4	8.1	EM
D1105-ES06	D1105-ES	20.8@2400	21.5	8.7	52.5@1600	24.9	6.7	EM
D1105-ES07	D1105-ES	20.9@2400	21.6	8.7	52.7@1600	25.1	6.7	EM
D1105-ES08	D1105-ES	19.0@2250	21.4	8.1	50.7@1500	25.0	6.3	EM
D1105-ES09	D1105-ES	17.8@2100	21.7	7.6	49.4@1500	24.5	6.2	EM
D1105-ES10	D1105-ES	16.9@2000	21.5	7.2	46.5@1500	22.8	5.7	EM
D1105-ES11	D1105-ES	11.8@1500	20.1	5.1	43.6@1200	21.7	4.4	EM
D1105-ES12	D1105-ES	20.9@2400	21.6	8.7	52.7@1500	25.1	6.3	EM
D1105-ES13	D1105-ES	24.3@2800	22.6	10.6	53.4@1900	25.4	8.1	EM
D1105-ES14	D1105-ES	19.0@2200	21.5	7.9	52.7@1600	25.1	6.7	EM
D1105-ES15	D1105-ES	24.8@3000	22.7	11.4	52.7@2200	25.4	9.4	EM
D1105-ES16	D1105-ES	24.8@3200	21.7	11.6	52.7@2200	25.4	9.4	EM