

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	6KBXL898KCB	0.599, 0.898	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection, Electronic Control Module (some models)			Riding Mower, 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	--	--	5.9	2.5	0.29	9	8	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 30th day of December 2005.

Raphael Susnowitz
 for Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: KUBOTA Corporation
Engine category: Nonroad CI
EPA Engine Family: 6KBXL898KCB
Mfr Family Name: N/A
Process Code: Running Change

Attachment
 U-1-025-0226

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
D902-ES01	D902-ES	24.8@3600	18.4	11.1	41.4@2600	19.5	8.5	N/A
D902-ES02	D902-ES	21.6@3200	17.5	9.4	41.4@2400	19.7	7.9	N/A
D902-ES03	D902-ES	21.6@3200	17.5	9.4	41.4@2000	19.7	6.6	N/A
D902-ES04	D902-ES	20.9@3200	17.0	9.1	40.3@2400	19.2	7.7	N/A
D902-ES05	D902-ES	16.5@2300	17.5	6.7	40.3@1800	18.5	5.6	N/A
D902-ES06	D902-ES	16.2@2400	16.9	6.8	37.0@2200	17.5	6.5	N/A
D902-ES07	D902-ES	16.2@2400	16.9	6.8	40.3@1900	19.1	6.1	N/A
D902-ES08	D902-ES	23.3@3400	18.6	10.6	40.6@2400	19.6	7.9	N/A
Z602-ES01	Z602-ES	15.8@3200	19.6	7.0	30.2@2400	22.1	5.9	N/A
Z602-ES02	Z602-ES	14.5@3200	18.0	6.4	28.0@2400	20.1	5.4	N/A
Z602-ES03	Z602-ES	16.8@3600	18.9	7.6	27.9@2600	20.0	5.8	N/A
Z602-ES04	Z602-ES	12.7@2800	17.8	5.6	26.6@2300	19.0	4.9	N/A
Z602-ES04e	Z602-ES	12.7@2800	17.8	5.6	26.6@2300	19.0	4.9	Electronic EC
Z602-ES05	Z602-ES	11.7@2600	17.4	5.1	26.8@2100	19.4	4.6	N/A