

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)
2004	4KBXL.898KCB	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 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50
		CERT	--	--	5.9	2.5	0.29	9	8	14

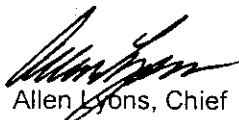
**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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.**

This Executive Order hereby supersedes Executive Order U-R-025-0168 dated January 6, 2004

Executed at El Monte, California on this 15<sup>TH</sup> day of March 2004.



Allen Lyons, Chief  
 Mobile Source Operations Division

# Engine Model Summary Form

Attachment 1 of 1  
U-R-025-0168-1

Manufacturer: KUBOTA Corporation  
 Engine category: Nonroad CI  
 EPA Engine Family: 4KBXL-898KCB  
 Mir Family Name: N/A  
 Process Code: Running Change

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-E01	D902-E	21.7 @ 3200	18.4	9.9	42.0 @ 2400	20.5	8.2	N/A-EEPI
D902-E02	D902-E	21.6 @ 3200	17.5	9.4	41.4 @ 2400	19.7	7.9	N/A
D902-E03	D902-E	21.6 @ 3200	17.5	9.4	41.4 @ 2000	19.7	6.6	N/A
D902-E04	D902-E	20.9 @ 3200	17.0	9.1	40.3 @ 2400	19.2	7.7	N/A
D902-E05	D902-E	16.5 @ 2300	17.5	6.7	40.3 @ 1800	18.5	5.6	N/A
D902-E06	D902-E	24.8 @ 3600	18.3	11.0	41.2 @ 2600	19.6	8.5	N/A
Z602-E01	Z602-E	15.8 @ 3200	19.6	7.0	30.2 @ 2400	22.1	5.9	N/A
Z602-E02	Z602-E	14.5 @ 3200	18.4	6.6	28.0 @ 2400	20.5	5.5	N/A
Z602-E03	Z602-E	16.8 @ 3600	18.9	7.6	27.9 @ 2600	20.0	5.8	N/A
Z602-E04e	Z602-E	12.7 @ 2800	17.8	5.6	26.6 @ 2300	19.0	4.9	Electronic EC

*V. Kaded*