



KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0052 New Off-Road Compression-Ignition Engines

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-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system 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)		
2002	2KBXL01.0BCB	0.898 and 1.001	Diesel			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ection	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	EMISSION			E	XHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD		HC	NOx	NMHC+Nox	СО	PM	ACCEL	LUG	PEAK
8 < KW < 19	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50
	1.0.	CERT			5.8	2.4	0.21	6	5	12

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 November 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

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2002

Manufacturer:

KUBOTA Corporation

Engine Family: 2KBXL01.0BCB

Issued:

Revised:

10/10/2001

E.O. Number: U- R-25-52

Small Off-Road Engine Model Summary Form

Units for Table: hp

Vorst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	Rai KW	53. ted Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	Control Sys
X	D905-E1 D905-E2	50-State 50-State	898 898	72/73.6 72/73.6	N/A N/A	20.7 20.8		3200 3000	39.7ft-lb 41.2ft-lb	2400 2200	IDI IDI :
	D905-E2 D905-E3	50-State	898	72/73.6	N/A	16.9	Q. 7	2600	39.8ft-lb	1700	IDI
	D905-E4	50-State	898	72/73.6	N/A	18.8		2700	40.5ft-lb	1900	IDI
	D1005-E1	50-State	1001	76/73.6	N/A		17.6	3000 2800	46.3ft-lb 44.0ft-lb	-2200 2200	IDI IDI
	D1005-E2	50-State	1001 1001	76/73.6 76/73.6	N/A N/A	21.6 19.8		2700	44.5ft-lb		1DI
	D1005-E3	50-State 50-State	1001	76/73.6	N/A	19.4		2600	45.6ft-lb	2.	IDI
	D1005-E5	50-State	1001	76/73.6	N/A	19.0		2500	40.8ft-lb	2000	IDI
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