

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0275 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-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	7KBXL.898KCB	0.599, 0.898	Diesel	3000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
· Ele	Indirect Diesel Inje ectronic Control Module (ection, some models)	Riding Mower, Other Indu	ustrial 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	nr)		OF	ACITY (%	b)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
8 <u><</u> kW < 19	Tier 2	STD	N/A	N/A	7.5	6.6	0.80	20	15	50
		CERT			5.9	2.5	0.30	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 ______ day of December 2006.

Annette Hebert, Chief $^{\mathcal{L}}$

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: KUBOTA Corporation

Engine category: Nonroad Cl

EPA Engine Family: 7KBXL.898KCB

Mfr Family Name: N/A

Process Code: New Submission

Attachunt 2025-0275

184 414 @ 2600 195 885 175 94 414 @ 2400 197 7.9 17.5 94 414 @ 2200 197 7.9 17.0 9.1 40.3 @ 2400 19.2 7.7 17.0 9.1 40.3 @ 2400 18.5 5.6 16.9 6.8 37.0 @ 2200 17.5 6.5 16.9 6.8 37.0 @ 2200 19.1 6.1 18.6 10.6 40.5 @ 2400 19.6 7.9 18.0 6.4 28.0 @ 2400 20.1 5.4 18.0 6.4 28.0 @ 2400 20.1 5.4 17.8 5.6 26.6 @ 2300 19.0 4.9 EM.E 17.8 5.6 26.6 @ 2300 19.0 4.9 EM.E 17.4 5.1 26.8 @ 2100 19.4 4.6 EM.E	184 414@2600 195 815 175 94 414@2400 197 7.9 176 94 414@2400 197 7.9 170 9.1 40.3@2400 192 7.7 170 9.1 40.3@2400 185 55 16.9 6.8 37.0@2200 17.5 6.5 16.9 6.8 37.0@2200 17.5 6.5 18.0 6.8 40.3@2400 19.1 6.1 18.0 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.9 18.9 7.6 27.9@2600 20.0 5.9 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.4 411.7 414.02600 19.5 815 17.5 9.4 414.02400 19.7 7.9 17.0 9.1 40.302400 19.7 7.9 17.0 9.1 40.302400 19.2 7.7 16.9 6.8 37.002200 17.5 6.5 16.9 6.8 37.002200 17.5 6.5 16.9 6.8 37.002200 17.5 6.5 16.9 6.8 37.002400 19.6 7.9 18.0 6.4 28.002400 20.1 5.4 18.9 7.6 27.902600 20.0 5.8 17.8 5.6 26.602300 19.0 4.9 17.4 5.1 26.802100 19.4 4.6	18.4 414@2600 19.5 815 17.5 9.4 414@2400 19.7 7.9 17.6 9.4 414@2400 19.7 7.9 17.0 9.1 40.3@2400 19.2 7.7 16.9 6.8 37.0@2200 17.5 6.5 16.9 6.8 37.0@2200 19.6 5.6 16.9 6.8 37.0@2200 19.6 7.9 18.0 6.8 37.0@2400 19.6 7.9 18.0 6.4 28.0@2400 19.6 7.9 18.0 6.4 28.0@2400 22.1 5.9 17.8 5.6 26.6@2300 19.0 4.9 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.0 4.9 17.4 5.1 26.8@2100 19.0 4.9	184 111 414@2600 1955 815 175 9.4 414@2400 197 7.9 176 9.4 414@2000 197 7.9 170 9.1 40.3@2400 192 7.7 175 6.7 40.3@2400 19.2 7.7 16.9 6.8 37.0@2200 17.5 6.5 16.9 6.8 37.0@2200 17.5 6.5 18.0 6.8 37.0@2200 19.1 5.4 18.0 6.4 28.0@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.4 414@2600 19.5 81.5 17.5 9.4 414.02400 19.7 7.3 17.0 9.1 40.302400 19.2 7.7 17.0 9.1 40.302400 19.2 7.7 17.5 6.8 37.002200 17.5 6.5 16.9 6.8 37.002200 17.5 6.5 16.9 6.8 37.002200 17.5 6.5 18.6 10.6 40.302400 19.1 6.1 18.0 6.4 28.002400 20.1 5.9 18.0 6.4 28.002400 20.1 5.9 17.8 5.6 26.602300 19.0 4.9 17.4 5.1 26.602300 19.0 4.9 17.4 5.1 26.802100 19.4 4.6	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.Emis Device P
17.5 9.4 41.4@2400 19.7 7.9 17.0 9.1 40.3@2400 19.2 7.7 17.0 9.1 40.3@2400 19.2 7.7 16.9 6.8 37.0@2200 17.5 6.5 16.9 6.8 37.0@2200 17.5 6.5 16.9 6.8 40.3@1900 19.1 8.1 18.0 6.4 40.6@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.0 6.4 28.0@2400 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.5 9.4 41.4@2400 19.7 7.3 17.6 9.4 41.4@2000 19.7 6.6 17.0 9.1 40.3@2400 19.2 7.7 17.0 6.8 37.0@2200 18.5 5.6 16.9 6.8 37.0@2200 17.5 6.5 16.9 6.8 37.0@2400 19.6 7.9 18.0 10.6 40.3@2400 22.7 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 28.0@2400 20.1 5.4 17.8 5.6 26.6@2300 19.0 4.9 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.0 4.9 17.4 5.1 26.8@2100 19.0 4.9	17.5 9.4 41.4@2400 19.7 7.9 17.0 9.1 41.4@2000 19.7 56 17.0 9.1 40.3@2400 19.2 7.7 17.0 9.1 40.3@2400 18.5 5.6 16.9 6.8 37.0@2200 17.5 6.5 16.9 6.8 37.0@2200 17.5 6.5 18.6 10.6 40.6@2400 19.6 7.9 18.0 6.4 28.0@2400 20.1 5.4 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2800 20.0 4.9 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.6@2300 19.4 4.6	17.5 9.4 41.4@2400 19.7 7.9 17.0 9.4 41.4@2400 19.7 7.7 17.0 9.1 40.3@2400 19.2 7.7 17.0 9.1 40.3@2400 18.5 5.6 16.9 6.8 37.0@2200 17.5 6.5 16.9 6.8 40.3@1900 19.1 7.9 18.6 7.0 40.5@2400 19.6 7.9 18.0 6.4 28.0@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.9 18.0 6.4 28.0@2400 20.0 5.9 17.8 5.6 27.9@2600 20.0 4.9 17.4 5.1 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.5 9.4 41.4@2400 19.7 7.8 17.0 9.1 40.3@2400 19.2 7.7 17.0 9.1 40.3@2400 19.2 7.7 16.9 6.8 37.0@2200 18.6 5.6 16.9 6.8 37.0@2200 19.1 5.1 16.9 6.8 40.3@2400 19.6 7.9 18.0 6.4 28.0@2400 20.1 5.4 18.0 6.4 28.0@2400 20.1 5.4 18.0 6.4 28.0@2400 20.1 5.8 17.8 5.6 27.9@2600 19.0 4.9 17.4 5.1 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.0 4.9 17.4 5.1 26.8@2100 19.0 4.9	17.5 9.4 41.4@2400 19.7 7.9 17.0 9.1 40.3@2400 19.2 7.7 17.0 9.1 40.3@2400 19.2 7.7 16.9 6.8 37.0@2200 17.5 6.5 16.9 6.8 37.0@2200 17.5 6.5 16.9 6.8 37.0@2200 19.1 7.9 16.9 6.4 28.0@2400 22.7 5.9 18.0 6.4 28.0@2400 20.1 5.9 17.8 5.6 26.6@2300 19.0 4.9 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.6@2300 19.0 4.9 17.4 5.1 26.6@2300 19.0 4.9	D902-ES 24.8@3600	3600	18.4		41.4@2600	(18.5)。	81 5	EM 4 DT
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16.9 6.8 40.3@1900 1911 6.1 18.6 10.6 40.6@2400 19.6 7.9 18.0 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	16.9 16.9 40.3@1900 19:1 6.1 18.6 40.6@2400 19:6 7.9 19.6 7.0 30.2@2400 22.1 5.9 18.9 7.6 28.0@2400 20.1 5.4 17.8 5.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19:0 4.9 17.4 5.1 26.8@2100 19:4 4.6	16.9 16.8 40.3@1900 19.1 6.1 18.6 10.6 40.6@2400 19.6 7.9 19.6 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	16:9 6.8 40.3@1900 19:1 6.1 18:6 10.6 40.6@2400 19:6 7:9 19:6 7.0 30.2@2400 22.1 5.9 18:0 6.4 28.0@2400 20.1 5.4 18:9 7.6 27.9@2600 20.0 5.8 17:8 5.6 26.6@2300 19:0 4.9 17:4 5.1 26.8@2100 19:4 4.6	16.9 6.8 40.3@1900 19.6 6.1 18.6 10.6 40.6@2400 19.6 7.9 18.0 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	16.9 6.8 40.3@1900 19.1 6.1 18.6 10.6 40.6@2400 19.6 7.9 18.6 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.9 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6		8	16.9	8.9	37.0@2200	17.5	6.5	EM
18.6 40.6@2400 7.9 19.6 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.6 40.6@2400 7.9 19.6 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.6 10.6 40.6@2400 7.9 19.6 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.6 10.6 40.6@2400 19.6 7.9 7.9 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.6 10.6 40.6@2400 19.6 7.9 19.6 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 28.0@2400 20.1 5.4 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.6 10.6 40.6@2400 19.6 7.9 19.6 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6		00		8.9	40.3@1900	191	6.1	EM
19.6 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 4.9 17.8 5.6 26.6@2300 4.9 17.4 5.1 26.8@2100 19.4 4.6	19.6 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	19.6 7.0 30.2@2400 22.1 5.9 18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	19.6 7.0 30.2@2400 22.1 5.9 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	19.6 7.0 30.2@2400 22.1 5.9 18.9 7.6 28.0@2400 20.1 5.4 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	196 7.0 30.2@2400 72.1 5.9 18.9 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6 17.4 5.1 26.8@2100 19.4 4.6		0	18.6	10.6	40.6@2400	19.6	. 7.9	EM
18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.0 6.4 28.0@2400 20.1 5.4 17.8 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.0 6.4 28.0@2400 20:1 5.4 18.9 7.6 27.9@2600 20:0 5.8 17.8 5.6 26.6@2300 19:0 4.9 17.4 5.1 26.8@2100 19:4 4.6	18.0 6.4 28.0@2400 20.1 5.4 18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6 17.4 5.1 26.8@2100 19.4 4.6	Z602-ES 15.8@3200	0	19,6	7.0	30.2@2400	,22,1	2.9	EW.
18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	18.9 7.6 27.9@2600 20.0 5.8 17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	THE STREET STREET	0	18.0	94	28.0@2400	20.1	5.4	EM
17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6		0	18.9	9:2	27 9@2600	20,0	5.8	ĒW
17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 77.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	17.8 5.6 26.6@2300 19.0 4.9 17.4 5.1 26.8@2100 19.4 4.6	Z602-ES 12.7@2800	_	17.8	5.6	26.6@2300	0.6	4.9	EM
17.4 5.1 26.8@2100 19.4 4.6	17.4 5.1 26.8@2100 19.4 4.6	17.4 5.1 26.8@2100 19.4 4.6	17.4 5.1 26.8@2100 19.4 4.6	17.4 5.1 26.8@2100 19.4 4.6	17.4 5.1 26.8@2100 19.4 4.6	Z602-ES 12.7@2800	0	17.8	2.6	26.6@2300	- 19.0	4.9	EM, Electronic
							0	7.7	2.1	26.8@2100	19.4	46	EM