



KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0863  
New Off-Road  
Compression-Ignition Engines

Pursuant to the authority vested in California 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-19-095;

**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)
2020	LKBXL01.5BCB	1.124, 1.498	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			Loader, Tractor, Pump, Compressor, Generator Set, Carrier, Forklift, Garden Tractor, Light Tower, Mini Backhoe, Mower, Roller, Skid Steer Loader, Nonroad Sweeper, Utility Vehicle, Welder, Wood Chipper, Harvester, Lift, Excavator	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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 (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT	--	--	5.8	1.4	0.21	5	3	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 14<sup>TH</sup> day of August 2019.

Allen Lyons, Chief  
Emissions Certification and Compliance Division

### Engine Model Summary Form

EO# U-R-025-0863

Date: 8/5/2019

Manufacturer: **KUBOTA Corporation**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **LKBXL01.5BCB**  
 Mfr Family Name: **N/A**  
 Process Code: **New Submission**

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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
D1.1A-EF07	D1.1A-EF	20.7@2400	22.2	8.9	51.9@1600	25.4	6.8	EM, IFI
D1105-EF01	D1105-EF	24.4@3000	22.3	11.2	53.8@1800	26.0	7.8	EM, IFI
D1105-EF02	D1105-EF	24.4@3000	22.3	11.2	51.9@2200	25.4	9.4	EM, IFI
D1105-EF02e	D1105-EF	24.4@3000	22.3	11.2	51.9@2200	25.4	9.4	EM, IFI
D1105-EF03	D1105-EF	23.9@2800	22.9	10.8	52.6@1900	25.4	8.1	EM, IFI
D1105-EF04	D1105-EF	22.3@2700	21.9	9.9	49.8@1900	24.2	7.7	EM, IFI
D1105-EF05	D1105-EF	21.6@2600	21.7	9.5	52.1@1700	25.5	7.3	EM, IFI
D1105-EF06	D1105-EF	21.1@2500	21.9	9.2	51.8@1700	25.4	7.2	EM, IFI
D1105-EF07	D1105-EF	20.7@2400	22.2	8.9	51.9@1600	25.4	6.8	EM, IFI
D1105-EF07e	D1105-EF	20.7@2400	22.2	8.9	51.9@1600	25.4	6.8	EM, IFI
D1105-EF08	D1105-EF	18.8@2250	21.4	8.1	50.0@1500	24.6	6.2	EM, IFI
D1105-EF09	D1105-EF	18.8@2200	21.9	8.1	51.9@1600	25.4	6.8	EM, IFI
D1105-EF10	D1105-EF	16.6@1800	23.6	7.1	48.5@1800	23.6	7.1	EM, IFI
D1105-EF11	D1105-EF	19.3@2500	20.6	8.6	49.5@1700	24.0	6.8	EM, IFI
V1505-EF01	V1505-EF	24.4@2300	20.4	10.5	67.3@1700	24.0	9.1	EM, IFI
V1505-EF01e	V1505-EF	24.4@2300	20.4	10.5	67.3@1700	24.0	9.1	EM, IFI
V1505-EF02	V1505-EF	24.0@2250	20.6	10.4	64.3@1700	22.8	8.7	EM, IFI
V1505-EF03	V1505-EF	22.1@1900	22.3	9.5	64.4@1500	23.3	7.8	EM, IFI
V1505-EF04	V1505-EF	24.3@2250	20.9	10.5	65.0@1700	23.1	8.8	EM, IFI

1.124L

1.505L