

## **KUBOTA CORPORATION**

EXECUTIVE ORDER U-R-025-0898-1 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	LKBXL03.3E1D 3.331		Diesel	8000			
SPECIAL	FEATURES & EMISSION (	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Recirculat	Direct Injection, Turboch tion, Electronic Control M Oxidizer, Diesel Oxidatio	odule, Periodic Trap	Loader, Tractor, Compressor, Forklift, Mini Backhoe, Skid Steer Loader				

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 EMISSION				E	EXHAUST (g/kw-l	-hr)		OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 <u>&lt;</u> kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			3.3	0.1	0.001			

**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-025-0898 dated August 30, 2019.

Executed on this 4th day of October 2020.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

## **Engine Model Summary Form**

Manufacturer: KUBOTA Corporation

Engine category: Nonroad CI

EPA Engine Family: **LKBXL03.3E1D** 

Mfr Family Name: N/A

Process Code: Running Change

Attachment Page 1 of 1

EO# U-R-025-0898-	1
Date:10/13/2020	

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
C3.3B-CR-T-EW03	C3.3B-CR-T-EW	73.2@2400	53.0	28.4	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
C3.3B-CR-T-EW04	C3.3B-CR-T-EW	73.2@2200	55.1	27.1	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
D3.3H-CR-T-EW02	D3.3H-CR-T-EW	73.2@2600	50.4	29.3	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
D3.3H-CR-T-EW04	D3.3H-CR-T-EW	73.2@2200	55.1	27.1	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EW01	V3307-CR-T-EW	73.2@2600	50.7	29.5	212.2@1500	66.1	22.2	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EW02	V3307-CR-T-EW	73.2@2600	50.4	29.3	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EW03	V3307-CR-T-EW	73.2@2400	53.0	28.4	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EW04	V3307-CR-T-EW	73.2@2200	55.1	27.1	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC
V3307-CR-T-EW05	V3307-CR-T-EW	65.7@2000	54.8	24.5	194.0@1400	60.8	19.0	EM, DFI, TC, EGR, ECM, PTOX, DOC
*V3307-CR-T-EW08M	V3307-CR-T-EW	73.2@2600	48.0	27.9	210.2@1500	63.5	21.3	EM, DFI, TC, EGR, ECM, PTOX, DOC
*V3307-CR-T-EW09M	V3307-CR-T-EW	73.2@2400	50.2	26.9	210.2@1500	63.5	21.3	EM, DFI, TC, EGR, ECM, PTOX, DOC
*V3307-CR-T-EW10M	V3307-CR-T-EW	73.2@2200	53.8	26.5	210.2@1500	63.5	21.3	EM, DFI, TC, EGR, ECM, PTOX, DOC
<b>★</b> V3307-CR-T-EW11M	V3307-CR-T-EW	73.2@2000	58.4	26.1	210.2@1400	63.5	19.9	EM, DFI, TC, EGR, ECM, PTOX, DOC

* new engine codes		
* new engine codes		