

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0892 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	LKBXL03.3EKD	3.331	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Exhaust G	ctronic Direct Injection, Sas Recirculation, Electronication Catalyst, Period	onic Control Module,	Loader, Tractor, Compressor, Forklift, Mini Backhoe, Skid Steer Loader, Mower, Roller			

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 STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER CLASS			NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT		-	3.1	0.04	0.002	-		

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 September 2019.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Engine Model Summary Form

E0#U-R-025-0892 Date: 9/6/2019

KUBOTA Corporation Manufacturer:

Nonroad CI Engine category: EPA Engine Family: LKBXL03.3EKD

Mfr Family Name: N/A

New Submission Process Code:

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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	
C3.3B-CR-T-EF04	C3.3B-CR-T-EF	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-EF05	C3.3B-CR-T-EF	73.2@2200	55.1	27.1	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC	
C3.3B-CR-T-EF06	C3.3B-CR-T-EF	65.7@2000	54.8	24.5	194.0@1400 60.8 19		19.0	EM, DFI, TC, EGR, ECM, PTOX, DOC	
D3.3H-CR-T-EF02	D3.3H-CR-T-EF	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-EF05	D3.3H-CR-T-EF	73.2@2200	55.1	27.1	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF01	V3307-CR-T-EF	73.2@2200	55.8	27.4	212.2@1500	<u>9</u> 1500 66.1 22.2		EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF02	V3307-CR-T-EF	73.2@2600	50.4	29.3	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF03	V3307-CR-T-EF	72.5@2600	49.2	28.6	187.3@1600	57.2	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF04	V3307-CR-T-EF	73.2@2400	53.0	28.4	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF05	V3307-CR-T-EF	73.2@2200	55.1	27.1	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF06	V3307-CR-T-EF	65.7@2000	54.8	24.5	194.0@1400	60.8	19.0	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF07	V3307-CR-T-EF	65.0@2600	44.6	25.9	163.7@1600	51.1	18.3	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF08	V3307-CR-T-EF	66.1@2300	49.4	25.4	192.5@1500	61.0	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF09	V3307-CR-T-EF	72.3@2400	52.3	28.1	187.3@1600	57.2	20.5	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF10	V3307-CR-T-EF	73.0@2400	52.8	28.3	187.9@1400	58.2	18.2	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF11	V3307-CR-T-EF	65.4@2400	48.3	25.9	168.5@1400	53.0	16.6	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF12	V3307-CR-T-EF	73.2@2400	53.1	28.5	192.5@1400	60.0	18.8	EM, DFI, TC, EGR, ECM, PTOX, DOC	
V3307-CR-T-EF13	V3307-CR-T-EF	65.4@2400	47.2	25.3	170.8@1400	52.7	16.5	EM, DFI, TC, EGR, ECM, PTOX, DOC	