

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0960

New Off-Road Compression-Ignition Engines Page 1 of 1

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)					
2021	MKBXL03.3EKD	3.331	Diesel	8000					
SPECIAL	FEATURES & EMISSION C	ONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Gas Recir	ic Direct Injection, Turb culation, Electronic Col ation Catalyst, Periodic	ntrol Module, Diesel	Loader, Tractor, Compressor, Forklift, Mini Backhoe, Skid Steer Loader, Mower, Roller, 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			I	EXHAUST (g/kw-l	OPACITY (%)				
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	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 on this <u>29th</u> day of December 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-025-0960 Family: MKBXL03.3EKD Attachment Last Revised: 12/4/2020

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fue	I	Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
C3.3B-CR-T-EF	C3.3B-CR-T-EF04		1-4	3.331	Liters	54.6	kilowatt	2400	53	mm3/stroke	261	N-m	1500	61	mm3/stroke	N/A	N/A	N/A	N/A
C3.3B-CR-T-EF	C3.3B-CR-T-EF05		I-4	3.331	Liters	54.6	kilowatt	2200	55.1	mm3/stroke	261	N-m	1500	61	mm3/stroke	N/A	N/A	N/A	N/A
C3.3B-CR-T-EF	C3.3B-CR-T-EF06		1-4	3.331	Liters	49	kilowatt	2000	54.8	mm3/stroke	263	N-m	1400	60.8	mm3/stroke	N/A	N/A	N/A	N/A
D3.3H-CR-T-EF	D3.3H-CR-T-EF02		1-4	3.331	Liters	54.6	kilowatt	2600	50.4	mm3/stroke	261	N-m	1500	61	mm3/stroke	N/A	N/A	N/A	N/A
D3.3H-CR-T-EF	D3.3H-CR-T-EF05		I-4	3.331	Liters	54.6	kilowatt	2200	55.1	mm3/stroke	261	N-m	1500	61	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF01		I-4	3.331	Liters	54.6	kilowatt	2200	55.8	mm3/stroke	287.7	N-m	1500	66.1	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF02		1-4	3.331	Liters	54.6	kilowatt	2600	50.4	mm3/stroke	261	N-m	1500	61	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF03		1-4	3.331	Liters	54.1	kilowatt	2600	49.2	mm3/stroke	253.9	N-m	1600	57.2	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF04		I-4	3.331	Liters	54.6	kilowatt	2400	53	mm3/stroke	261	N-m	1500	61	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF05		1-4	3.331	Liters	54.6	kilowatt	2200	55.1	mm3/stroke	261	N-m	1500	61	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF06		1-4	3.331	Liters	49	kilowatt	2000	54.8	mm3/stroke	263	N-m	1400	60.8	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF07		I-4	3.331	Liters	48.5	kilowatt	2600	44.6	mm3/stroke	221.9	N-m	1600	51.1	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF08		1-4	3.331	Liters	49.3	kilowatt	2300	49.4	mm3/stroke	261	N-m	1500	61	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF09		1-4	3.331	Liters	53.9	kilowatt	2400	52.3	mm3/stroke	253.9	N-m	1600	57.2	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF10		I-4	3.331	Liters	54.4	kilowatt	2400	52.8	mm3/stroke	254.7	N-m	1400	58.2	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF11		I-4	3.331	Liters	48.8	kilowatt	2400	48.3	mm3/stroke	228.4	N-m	1400	53	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF12		I-4	3.331	Liters	54.6	kilowatt	2400	53.1	mm3/stroke	261	N-m	1400	60	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-T-EF	V3307-CR-T-EF13		I-4	3.331	Liters	48.8	kilowatt	2400	47.2	mm3/stroke	231.6	N-m	1400	52.7	mm3/stroke	N/A	N/A	N/A	N/A
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