

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-1026

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)				
2022	NKBXL03.3E2D	3.331	Diesel	8000				
SPECIAL	FEATURES & EMISSION (CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Gas Re	ic Direct Injection, Turb circulation, Charge Air I Module, Periodic Trap Oxidation Catal	Cooler, Electronic Oxidizer, Diesel	Loader, Tractor, 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 POWER CLASS	EMISSION				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			3.7	0.1	0.000			

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 7th day of November 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-025-1026 Family: NKBXL03.3E2D Attachment Last Revised: 10/22/2021

				Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power -		Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Fuel Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
V3307-CR-TI-EW01		1-4	3.331	Liters	54.6	kilowatt	2600	49.0	mm3/stroke	347.6	N-m	1400	74.1	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-TI-EW02		I-4	3.331	Liters	54.6	kilowatt	2600	48.1	mm3/stroke	330.0	N-m	1400	71.0	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-TI-EW03		I-4	3.331	Liters	54.6	kilowatt	2400	49.7	mm3/stroke	330.0	N-m	1400	71.0	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-TI-EW04		I-4	3.331	Liters	54.6	kilowatt	2200	53.0	mm3/stroke	330.0	N-m	1400	71.0	mm3/stroke	N/A	N/A	N/A	N/A
V3307-CR-TI-EW05		I-4	3.331	Liters	54.6	kilowatt	2000	56.9	mm3/stroke	330.0	N-m	1400	71.0	mm3/stroke	N/A	N/A	N/A	N/A
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	V3307-CR-TI-EW01 V3307-CR-TI-EW02 V3307-CR-TI-EW03 V3307-CR-TI-EW04	V3307-CR-TI-EW01 V3307-CR-TI-EW02 V3307-CR-TI-EW03 V3307-CR-TI-EW04	V3307-CR-TI-EW01	V3307-CR-TI-EW01 I-4 3.331 V3307-CR-TI-EW02 I-4 3.331 V3307-CR-TI-EW03 I-4 3.331 V3307-CR-TI-EW04 I-4 3.331	Code Trim Config Displacement Units V3307-CR-TI-EW01 I-4 3.331 Liters V3307-CR-TI-EW02 I-4 3.331 Liters V3307-CR-TI-EW03 I-4 3.331 Liters V3307-CR-TI-EW04 I-4 3.331 Liters	Code Trim Config Displacement Units Peak Power V3307-CR-TI-EW01 I-4 3.331 Liters 54.6 V3307-CR-TI-EW02 I-4 3.331 Liters 54.6 V3307-CR-TI-EW03 I-4 3.331 Liters 54.6 V3307-CR-TI-EW04 I-4 3.331 Liters 54.6	Code Trim Config Displacement Units Peak Power Units V3307-CR-TI-EW01 I-4 3.331 Liters 54.6 kilowatt V3307-CR-TI-EW02 I-4 3.331 Liters 54.6 kilowatt V3307-CR-TI-EW03 I-4 3.331 Liters 54.6 kilowatt V3307-CR-TI-EW04 I-4 3.331 Liters 54.6 kilowatt	Code Trim Config Displacement Units Peak Power Units Speed (rpm) V3307-CR-TI-EW01 I-4 3.331 Liters 54.6 kilowatt 2600 V3307-CR-TI-EW02 I-4 3.331 Liters 54.6 kilowatt 2600 V3307-CR-TI-EW03 I-4 3.331 Liters 54.6 kilowatt 2400 V3307-CR-TI-EW04 I-4 3.331 Liters 54.6 kilowatt 2200	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling V3307-CR-TI-EW01 I-4 3.331 Liters 54.6 kilowatt 2600 49.0 V3307-CR-TI-EW02 I-4 3.331 Liters 54.6 kilowatt 2600 48.1 V3307-CR-TI-EW03 I-4 3.331 Liters 54.6 kilowatt 2400 49.7 V3307-CR-TI-EW04 I-4 3.331 Liters 54.6 kilowatt 2200 53.0	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units V3307-CR-TI-EW01 I-4 3.331 Liters 54.6 kilowatt 2600 49.0 mm3/stroke V3307-CR-TI-EW02 I-4 3.331 Liters 54.6 kilowatt 2600 48.1 mm3/stroke V3307-CR-TI-EW03 I-4 3.331 Liters 54.6 kilowatt 2400 49.7 mm3/stroke V3307-CR-TI-EW04 I-4 3.331 Liters 54.6 kilowatt 2200 53.0 mm3/stroke	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units Peak Torque V3307-CR-TI-EW01 I-4 3.331 Liters 54.6 kilowatt 2600 49.0 mm3/stroke 347.6 V3307-CR-TI-EW02 I-4 3.331 Liters 54.6 kilowatt 2600 48.1 mm3/stroke 330.0 V3307-CR-TI-EW03 I-4 3.331 Liters 54.6 kilowatt 2400 49.7 mm3/stroke 330.0 V3307-CR-TI-EW04 I-4 3.331 Liters 54.6 kilowatt 2200 53.0 mm3/stroke 330.0	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fueling Fuel Units Peak Torque Units V3307-CR-TI-EW01 I-4 3.331 Liters 54.6 kilowatt 2600 49.0 mm3/stroke 347.6 N-m V3307-CR-TI-EW02 I-4 3.331 Liters 54.6 kilowatt 2600 48.1 mm3/stroke 330.0 N-m V3307-CR-TI-EW03 I-4 3.331 Liters 54.6 kilowatt 2400 49.7 mm3/stroke 330.0 N-m V3307-CR-TI-EW04 I-4 3.331 Liters 54.6 kilowatt 2200 53.0 mm3/stroke 330.0 N-m	Code Trim Confige Displacement Units Peak Power Units Speed (rpm) Fuel ling Fuel Units Peak Torque Units Speed (rpm) V3307-CR-TI-EW01 I-4 3.331 Liters 54.6 kilowatt 2600 49.0 mm3/stroke 347.6 N-m 1400 V3307-CR-TI-EW02 I-4 3.331 Liters 54.6 kilowatt 2600 48.1 mm3/stroke 330.0 N-m 1400 V3307-CR-TI-EW03 I-4 3.331 Liters 54.6 kilowatt 2400 49.7 mm3/stroke 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V3307-CR-TI-EW04 I-4 3.331 Liters 54.6 kilowatt 2200 53.0 mm3/stroke 330.0 N-m 1400 71.0 mm3/stroke V3307-CR-TI-EW04 I-4 3.331 Liters 54.6 kilowatt 2200 53.0 mm3/stroke 330.0	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fuel Units Peak Torque Units Speed (rpm) Fuel Units OBD V3307-CR-TI-EW01 I-4 3.331 Liters 54.6 kilowatt 2600 49.0 mm3/stroke 347.6 N-m 1400 74.1 mm3/stroke N/A V3307-CR-TI-EW02 I-4 3.331 Liters 54.6 kilowatt 2600 48.1 mm3/stroke 330.0 N-m 1400 71.0 mm3/stroke N/A V3307-CR-TI-EW03 I-4 3.331 Liters 54.6 kilowatt 2400 49.7 mm3/stroke 330.0 N-m 1400 71.0 mm3/stroke N/A V3307-CR-TI-EW04 I-4 3.331 Liters 54.6 kilowatt 2200 53.0 mm3/stroke 330.0 N-m 1400 71.0 mm3/stroke N/A	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fuel Units Peak Torque Units Speed (rpm) Fuel Units OBD GHG V3307-CR-TI-EW01 I -4 3.331 Liters 54.6 kilowatt 2600 49.0 mm3/stroke 347.6 N-m 1400 74.1 mm3/stroke N/A N/A V3307-CR-TI-EW02 I -4 3.331 Liters 54.6 kilowatt 2600 48.1 mm3/stroke 330.0 N-m 1400 71.0 mm3/stroke N/A N/A V3307-CR-TI-EW03 I -4 3.331 Liters 54.6 kilowatt 2400 49.7 mm3/stroke 330.0 N-m 1400 71.0 mm3/stroke N/A V3307-CR-TI-EW04 I -4 3.331 Liters 54.6 kilowatt 2200 53.0 mm3/stroke 330.0 N-m 1400 71.0 mm3/stroke N/A V3307-CR-TI-EW04 I -4 3.331	Code Trim Config Displacement Units Peak Power Units Speed (rpm) Fuel Units Speed (rpm) Fuel Units OBD GHG Special V3307-CR-TI-EW01 1 1-4 3.331 Liters 54.6 kilowatt 2600 49.0 mm3/stroke 347.6 N-m 1400 74.1 mm3/stroke N/A N/A V3307-CR-TI-EW02 1 1-4 3.331 Liters 54.6 kilowatt 2600 48.1 mm3/stroke 330.0 N-m 1400 71.0 mm3/stroke N/A N/A V3307-CR-TI-EW03 1 1-4 3.331 Liters 54.6 kilowatt 2400 49.7 mm3/stroke 330.0 N-m 1400 71.0 mm3/stroke N/A N/A V3307-CR-TI-EW04 1 1-4 3.331 Liters 54.6 kilowatt 2200 53.0 mm3/stroke 330.0 N-m 1400 71.0 mm3/stroke N/A N/A