

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-1056

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)					
2023	PKBXL01.5A1D	1.498	Diesel	5000					
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Control M	Diesel Injection, Turbocl odule, Exhaust Gas Re o Oxidizer, Diesel Oxid	circulation, Periodic	Loader, Tractor, Pump, Compressor, Asphalt Finisher, Carrier, Construction Machinery, Forklift, Garden Tractor, Mini Backhoe, Mower, Roller, Nonroad Sweeper, Utility Vehicle, Wood Chipper						

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			ı	EXHAUST (g/kw-l	OPACITY (%)				
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Final	STD	N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT			2.9	0.1	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 5th day of October 2022.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

Jolin U. Lang

Attachment: Engine Models EO #: U-R-025-1056 Family: PKBXL01.5A1D Attachment Last Revised: 9/27/2022

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fuel		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
V1505-CR-T-EW	V1505-CR-T-EW01		14	1.498	Liters	34.0	kilowatt	3000	28.0	mm3/stroke	122.2	N-m	2000	30.2	mm3/stroke	N/A	N/A	N/A	N/A
V1505-CR-T-EW	V1505-CR-T-EW02		14	1.498	Liters	32.5	kilowatt	3000	26.8	mm3/stroke	116.8	N-m	2000	28.8	mm3/stroke	N/A	N/A	N/A	N/A
V1505-CR-T-EW	V1505-CR-T-EW03		14	1.498	Liters	22.7	kilowatt	2500	21.9	mm3/stroke	103.8	N-m	1600	25.6	mm3/stroke	N/A	N/A	N/A	N/A
V1505-CR-T-EW	V1505-CR-T-EW04		14	1.498	Liters	27.1	kilowatt	2500	26.2	mm3/stroke	116.8	N-m	2000	28.8	mm3/stroke	N/A	N/A	N/A	N/A
V1505-CR-T-EW	V1505-CR-T-EW05		14	1.498	Liters	25.6	kilowatt	2600	23.7	mm3/stroke	115.8	N-m	1800	28.8	mm3/stroke	N/A	N/A	N/A	N/A
V1505-CR-T-EW	V1505-CR-T-EW06		14	1.498	Liters	25.6	kilowatt	2700	23.0	mm3/stroke	109.4	N-m	1700	26.9	mm3/stroke	N/A	N/A	N/A	N/A
V1505-CR-T-EW	V1505-CR-T-EW07		14	1.498	Liters	29.3	kilowatt	2700	26.3	mm3/stroke	115.8	N-m	1800	28.8	mm3/stroke	N/A	N/A	N/A	N/A
V1505-CR-T-EW	V1505-CR-T-EW08		14	1.498	Liters	27.1	kilowatt	2500	26.2	mm3/stroke	116.8	N-m	2000	28.8	mm3/stroke	N/A	N/A	N/A	N/A
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