

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0981

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	NKBXL.719KCC	0.479, 0.719	Diesel	3000					
SPECIAL	. FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
	Indirect Diesel Inje	ection	Generator Set, Light Tower, Welder, Auxiliary Power U						

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			ı	EXHAUST (g/kw-l	OPACITY (%)				
	POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
	kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	N/A	N/A	N/A
			CERT			6.0	2.5	0.21			

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).

BE IT FURTHER RESOLVED: That for the listed engine models which include engines from different power categories in the same engine family, the manufacturer is complying with the more stringent set of standards from the 8 ≤ kW < 19 power category in conformance with the incorporated Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for New 2011 and Later Tier 4 Off-Road Compression Ignition Engines, Part 1-D" adopted October 20, 2005 and last amended October 25, 2012.

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 19th day of August 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-025-0981 Family: NKBXL.719KCC Attachment Last Revised: 7/26/2021

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fue	el .	Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque - Fue	el			
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Fuel	Units	OBD	GHG	Special	Notes
D722-D2-EF	D722-D2-EF01		I-3	0.719	Liters	15.1	kilowatt	3600	15.2	mm3/stroke	40.1	N-m	3600	15.2	mm3/stroke	N/A	N/A	N/A	N/A
Z482-D2-EF	Z482-D2-EF01		I-2	0.479	Liters	10.3	kilowatt	3600	15.4	mm3/stroke	27.3	N-m	3600	15.4	mm3/stroke	N/A	N/A	N/A	N/A
Z482-D2-EF	Z482-D2-EF02		I-2	0.479	Liters	9.8	kilowatt	3600	15.2	mm3/stroke	26.0	N-m	3600	15.2	mm3/stroke	N/A	N/A	N/A	N/A
Z482-D2-EF	Z482-D2-EF03		I-2	0.479	Liters	9.5	kilowatt	3600	14.7	mm3/stroke	25.2	N-m	3600	14.7	mm3/stroke	N/A	N/A	N/A	N/A
Z482-D2-EF	Z482-D2-EF04		I-2	0.479	Liters	9.1	kilowatt	3600	14.2	mm3/stroke	24.1	N-m	3600	14.2	mm3/stroke	N/A	N/A	N/A	N/A
Z482-D2-EF	Z482-D2-EF05		I-2	0.479	Liters	7.1	kilowatt	2600	14.3	mm3/stroke	26.1	N-m	2600	14.3	mm3/stroke	N/A	N/A	N/A	N/A
Z482-D2-EF	Z482-D2-EF06		I-2	0.479	Liters	8.2	kilowatt	3000	14.6	mm3/stroke	26.1	N-m	3000	14.6	mm3/stroke	N/A	N/A	N/A	N/A
Z482-D2-EF	Z482-D2-EF07		I-2	0.479	Liters	4.5	kilowatt	1800	13.6	mm3/stroke	23.9	N-m	1800	13.6	mm3/stroke	N/A	N/A	N/A	N/A
Z482-D2-EF	Z482-D2-EF07e		I-2	0.479	Liters	4.5	kilowatt	1800	13.6	mm3/stroke	23.9	N-m	1800	13.6	mm3/stroke	N/A	N/A	N/A	N/A
Z482-D2-EF	Z482-D2-EF08		I-2	0.479	Liters	6.5	kilowatt	2400	14.0	mm3/stroke	25.9	N-m	2400	14.0	mm3/stroke	N/A	N/A	N/A	N/A
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