

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0982

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.778KCB	0.778	Diesel 3000							
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION							
	Indirect Diesel Inje	ection	Tractor, Generator Set, Garden Tractor, Mini Backhoe, Mower, 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	EMISSION STANDARD CATEGORY			ı	EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS			NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT			6.1	1.6	0.29	10	11	20

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 19th day of August 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-025-0982 Family: NKBXL.778KCB Attachment Last Revised: 7/27/2021

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fue		Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque - Fuel				
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Fuel	Units	OBD	GHG	Special	Notes
3D67E	3D67E		I-3	0.778	Liters	11.6	kilowatt	2600	15.6	mm3/stroke	45.7	N-m	1800	15.8	mm3/stroke	N/A	N/A	N/A	N/A
D782-EF	D782-EF01		I-3	0.778	Liters	14.3	kilowatt	3200	16.1	mm3/stroke	49.7	N-m	1900	17.2	mm3/stroke	N/A	N/A	N/A	N/A
D782-EF	D782-EF02		I-3	0.778	Liters	14.2	kilowatt	3200	15.5	mm3/stroke	49.0	N-m	2400	16.8	mm3/stroke	N/A	N/A	N/A	N/A
D782-EF	D782-EF03		I-3	0.778	Liters	12.5	kilowatt	3000	14.6	mm3/stroke	45.9	N-m	2400	16.0	mm3/stroke	N/A	N/A	N/A	N/A
D782-EF	D782-EF04		I-3	0.778	Liters	11.6	kilowatt	2600	15.6	mm3/stroke	45.7	N-m	1800	15.8	mm3/stroke	N/A	N/A	N/A	N/A
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