

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-1004

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	NKBXL02.4EMC	1.826, 2.435	Diesel	5000						
SPECIAL	FEATURES & EMISSION O	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION							
Gas Re	ic Direct Injection, Turb circulation, Charge Air trol Module, Diesel Oxid	Cooler, Electronic	Generator Set, Welde	er						

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
19 ≤ kW < 37	Tier 4 Final	STD	N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT			3.1	0.1	0.01			

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 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-025-1004 Family: NKBXL02.4EMC Attachment Last Revised: 9/15/2021

					O 11 023 1004			_		5, 25, 2522	-								
Model	Code	Trim	Config		Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)		Peak Power - Fuel Units	Peak Torque		Peak Torque - Speed (rpm)		Peak Torque - Fuel Units	OBD	GHG	Special	Notes
	D1803-CR-TI-BG-EF01		I-3	1.826	Liters	27.8	kilowatt	1800	46.0	mm3/stroke	147.5	N-m	1800	46.0	mm3/stroke	T	T	N/A	N/A
D1803-CR-TI-BG-EF	D1803-CR-TI-BG-EF02		I-3	1.826	Liters	26.6	kilowatt	1800	43.8	mm3/stroke	141.1	N-m	1800	43.8	mm3/stroke	N/A	N/A	N/A	N/A
V2403-CR-TI-BG-EF	V2403-CR-TI-BG-EF01		I-4	2.435	Liters	36.0	kilowatt	1800	43.4	mm3/stroke	191.0	N-m	1800	43.4	mm3/stroke	N/A	N/A	N/A	N/A
																			-
																			+
																			1
																		-	_
																		-	+
																			+
																		-	-
																		_	+
																			_
																			+
																			_
		-																-	+
																			+
																		-	_
																		-	-
	1	1	1	1			1	1	1		1	1	1	1	1	1	1		