

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0994

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	NKBXL01.6ECB	1.648	Diesel 3000						
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
	Mechanical Diesel Ir	njection	Loader, Tractor, Compressor, Generator Set, Asphalt Finisher, Mini Backhoe, Mower, Roller, Skid Steer Loader, Welder, Lift, Excavator						

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				EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	co	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			6.5	2.3	0.32	4	6	6

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 <u>/2th</u> day of October 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-025-0994

Family: NKBXL01.6ECB

Attachment Last Revised: 9/16/2021

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power -		Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
Model	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
C1.7-M-DI-EF	C1.7-M-DI-EF03		I-3	1.648	Liters	18.2	kilowatt	2200	28.3	mm3/stroke	96.0	N-m	1500	31.1	mm3/stroke	N/A	N/A	N/A	N/A
C1.7-M-DI-EF	C1.7-M-DI-EF04		I-3	1.648	Liters	18.2	kilowatt	2200	27.3	mm3/stroke	96.0	N-m	1500	32.2	mm3/stroke	N/A	N/A	N/A	N/A
D1.7A-DI-EF	D1.7A-DI-EF03		I-3	1.648	Liters	18.2	kilowatt	2200	28.3	mm3/stroke	96.0	N-m	1500	31.1	mm3/stroke	N/A	N/A	N/A	N/A
D1703-M-DI-EF	D1703-M-DI-EF01		I-3	1.648	Liters	18.2	kilowatt	2200	28.3	mm3/stroke	96.7	N-m	1600	32.2	mm3/stroke	N/A	N/A	N/A	N/A
D1703-M-DI-EF	D1703-M-DI-EF02		I-3	1.648	Liters	18.2	kilowatt	2200	28.3	mm3/stroke	96.0	N-m	1600	31.1	mm3/stroke	N/A	N/A	N/A	N/A
D1703-M-DI-EF	D1703-M-DI-EF03		I-3	1.648	Liters	18.2	kilowatt	2200	28.3	mm3/stroke	96.0	N-m	1500	31.1	mm3/stroke	N/A	N/A	N/A	N/A
D1703-M-DI-EF	D1703-M-DI-EF03e		I-3	1.648	Liters	18.2	kilowatt	2200	28.3	mm3/stroke	96.0	N-m	1500	31.1	mm3/stroke	N/A	N/A	N/A	N/A
D1703-M-DI-EF	D1703-M-DI-EF04		I-3	1.648	Liters	18.2	kilowatt	2200	27.3	mm3/stroke	96.0	N-m	1500	32.2	mm3/stroke	N/A	N/A	N/A	N/A
D1703-M-DI-EF	D1703-M-DI-EF04e		I-3	1.648	Liters	18.2	kilowatt	2200	27.3	mm3/stroke	96.0	N-m	1500	32.2	mm3/stroke	N/A	N/A	N/A	N/A
D1.7A-BDI-EF	D1.7A-BDI-EF04		I-3	1.648	Liters	18.2	kilowatt	2200	27.3	mm3/stroke	96.0	N-m	1500	32.2	mm3/stroke	N/A	N/A	N/A	N/A
D1703BM-DI-EF	D1703BM-DI-EF02		I-3	1.648	Liters	18.2	kilowatt	2200	28.3	mm3/stroke	96.0	N-m	1600	31.1	mm3/stroke	N/A	N/A	N/A	N/A
D1703BM-DI-EF	D1703BM-DI-EF03		I-3	1.648	Liters	18.2	kilowatt	2200	28.3	mm3/stroke	96.0	N-m	1500	31.1	mm3/stroke	N/A	N/A	N/A	N/A
D1703BM-DI-EF	D1703BM-DI-EF03e		I-3	1.648	Liters	18.2	kilowatt	2200	28.3	mm3/stroke	96.0	N-m	1500	31.1	mm3/stroke	N/A	N/A	N/A	N/A
D1703BM-DI-EF	D1703BM-DI-EF04		I-3	1.648	Liters	18.2	kilowatt	2200	27.3	mm3/stroke	96.0	N-m	1500	32.2	mm3/stroke	N/A	N/A	N/A	N/A
D1703BM-DI-EF	D1703BM-DI-EF04e		I-3	1.648	Liters	18.2	kilowatt	2200	27.3	mm3/stroke	96.0	N-m	1500	32.2	mm3/stroke	N/A	N/A	N/A	N/A
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