

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-1021

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	NKBXL02.6E1D	2.616	Diesel	8000					
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Gas R	ic Direct Injection, Turb ecirculation, Electronic Trap Oxidizer, Diesel (Control Module,	Loader, Tractor, Forklift, Mini Backhoe, Mower, Skid- Steer Loader, Utility Vehicle, 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 POWER CLASS	EMISSION				EXHAUST (g/kw-l	OPACITY (%)				
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
19 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			3.2	0.1	0.001			

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 37 ≤ kW < 56 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 <u>22nd</u> day of November 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-025-1021 Family: NKBXL02.6E1D Attachment Last Revised: 10/19/2021

					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
D2.6H-CR-T-EW	D2.6H-CR-T-EW03	T	1-4	2.616	Liters	47.3	kilowatt	2400	45.4	mm3/stroke	221.6	N-m	1500	49.5	mm3/stroke	N/A	N/A	N/A	N/A
D2.6H-CR-T-EW	D2.6H-CR-T-EW04		1-4	2.616	Liters	44.3	kilowatt	2200	44.6	mm3/stroke	221.6	N-m	1500	49.5	mm3/stroke	N/A	N/A	N/A	N/A
D2.6H-CR-T-EW	D2.6H-CR-T-EW05		1-4	2.616	Liters	42.4	kilowatt	2000	46.8	mm3/stroke	217.0	N-m	1300	49.4	mm3/stroke	N/A	N/A	N/A	N/A
D2.6H-CR-T-EW	D2.6H-CR-T-EW06		1-4	2.616	Liters	36.0	kilowatt	2000	40.5	mm3/stroke	206.9	N-m	1300	47.2	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW01		1-4	2.616	Liters	52.2	kilowatt	2700	46.4	mm3/stroke	231.8	N-m	1600	52.2	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW02		I-4	2.616	Liters	52.2	kilowatt	2700	46.4	mm3/stroke	221.6	N-m	1600	49.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW03		I-4	2.616	Liters	47.3	kilowatt	2400	45.4	mm3/stroke	221.6	N-m	1500	49.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW04		1-4	2.616	Liters	44.3	kilowatt	2200	44.6	mm3/stroke	221.6	N-m	1500	49.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW05		1-4	2.616	Liters	42.4	kilowatt	2000	46.8	mm3/stroke	217.0	N-m	1300	49.4	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW06		1-4	2.616	Liters	36.0	kilowatt	2000	40.5	mm3/stroke	206.9	N-m	1300	47.2	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW07		1-4	2.616	Liters	47.0	kilowatt	2700	42.9	mm3/stroke	221.6	N-m	1500	49.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW08M		1-4	2.616	Liters	54.6	kilowatt	2700	46.5	mm3/stroke	221.7	N-m	1600	48.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW09M		I-4	2.616	Liters	50.0	kilowatt	2400	46.0	mm3/stroke	221.7	N-m	1500	48.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW10M		I-4	2.616	Liters	46.0	kilowatt	2200	46.0	mm3/stroke	221.7	N-m	1500	49.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607-CR-T-EW	V2607-CR-T-EW11M		I-4	2.616	Liters	42.4	kilowatt	2000	46.0	mm3/stroke	217.0	N-m	1300	49.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607CCR-T-EW	V2607CCR-T-EW08M		1-4	2.616	Liters	54.6	kilowatt	2700	46.5	mm3/stroke	221.7	N-m	1600	48.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607CCR-T-EW	V2607CCR-T-EW09M		I-4	2.616	Liters	50.0	kilowatt	2400	46.0	mm3/stroke	221.7	N-m	1500	48.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607CCR-T-EW	V2607CCR-T-EW10M		I-4	2.616	Liters	46.0	kilowatt	2200	46.0	mm3/stroke	221.7	N-m	1500	49.5	mm3/stroke	N/A	N/A	N/A	N/A
V2607CCR-T-EW	V2607CCR-T-EW11M		I-4	2.616	Liters	42.4	kilowatt	2000	46.0	mm3/stroke	217.0	N-m	1300	49.5	mm3/stroke	N/A	N/A	N/A	N/A