

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0968

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)				
2021	MKBXL03.8C1D	3.770	Diesel	8000				
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Gas R	ic Direct Injection, Turb ecirculation, Electronic Trap Oxidizer, Diesel (Control Module,	Tractor, Forklift, Roller, Sw	eeper				

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			I	EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			3.1	0.04	0.000			

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 29th day of December 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-025-0968

Family: MKBXL03.8C1D Attachment Last Revised: 12/8/2020

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power -					Peak Torque -				
Model		Trim		Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Fuel Units	Peak Torque		Speed (rpm)		_	OBD	GHG	Special	Notes
	D3.8H-CR-T-EW02		1-4	3.770	Liters	54.6	kilowatt	2200	58	mm3/stroke	305.4	N-m	1500	71.3	mm3/stroke		N/A	N/A	N/A
V3800-CR-T-EW	V3800-CR-T-EW01		I-4	3.770	Liters	54.6	kilowatt	2200	59	mm3/stroke	310	N-m	1500	73.1	mm3/stroke	N/A	N/A	N/A	N/A
V3800-CR-T-EW	V3800-CR-T-EW02		1-4	3.770	Liters	54.6	kilowatt	2200	58	mm3/stroke	305.4	N-m	1500	71.3	mm3/stroke	N/A	N/A	N/A	N/A
V3800-CR-T-EW	V3800-CR-T-EW03		I-4	3.770	Liters	54.6	kilowatt	2400	54.9	mm3/stroke	305.4	N-m	1500	71.3	mm3/stroke	N/A	N/A	N/A	N/A
V3800-CR-T-EW	V3800-CR-T-EW04		I-4	3.770	Liters	54.1	kilowatt	2400	54.8	mm3/stroke	271.5	N-m	1500	63.8	mm3/stroke	N/A	N/A	N/A	N/A
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																+	-		
														-	-	-			
																-	-		