

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-1066

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)					
2023	PKBXL01.8EMD	1.826	Diesel	5000					
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Cooler,	Direct Injection, Turbo Electronic Control Mod circulation, Diesel Oxida	ule, Exhaust Gas	Loader, Tractor, Pump, Compressor, Asphalt Finisher, Carrier, Construction Machinery, Forklift, Garden Tractor, Mini Backhoe, Mower, Roller, Skid Steer Loader, Nonroad Sweeper, Wood Chipper, Lift						

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			ı	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			3.9	0.5	0.02			

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 //t/ day of October 2022.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

Jolin U. Lang

Attachment: Engine Models EO #: U-R-025-1066 Family: PKBXL01.8EMD Attachment Last Revised: 10/3/2022

Model	Code	Trim	Config	Displacement	Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fuel Units	Peak Torque	Peak Torque - Units	Peak Torque - Speed (rpm)	Peak Torque - Fuel	Peak Torque - Fuel Units	OBD	GHG	Special	Notes
D1803-CR-TI-EF	D1803-CR-TI-EF01	111111	I-3	1.826	Liters	36.5	kilowatt	2700	43.0	mm3/stroke	160.0	N-m	1600	48.0	mm3/stroke	_	N/A	N/A	N/A
D1803-CR-TI-EF	D1803-CR-TI-EF01	-	I-3	1.826	Liters	36.5	kilowatt	2700	44.5	mm3/stroke	148.3	N-m	1600	45.4	mm3/stroke	_	N/A	N/A	N/A
D1803-CR-TI-EF	D1803-CR-TI-EF02	-	I-3	1.826	Liters	32.3	kilowatt	2400	43.6	mm3/stroke	148.3	N-m	1500	45.4	mm3/stroke		N/A	N/A	N/A
D1803-CR-TI-EF	D1803-CR-TI-EF04	+	I-3	1.826	Liters	29.7	kilowatt	2200	42.3	mm3/stroke	148.3	N-m	1500	45.3	mm3/stroke		N/A	N/A	N/A
D1803-CR-TI-EF	D1803-CR-TI-EF05	+	I-3	1.826	Liters	35.0	kilowatt	2600	44.2	mm3/stroke	148.3	N-m	1600	45.4	mm3/stroke		N/A	N/A	N/A
D1803-CR-TI-EF	D1803-CR-TI-EF06	+	I-3	1.826	Liters	27.6	kilowatt	2700	34.5	mm3/stroke	114.1	N-m	1600	34.7	mm3/stroke	_	N/A	N/A	N/A
D1803-CR-TI-EF	D1803-CR-TI-EF51	+	I-3	1.826	Liters	36.5	kilowatt	2700	44.4	mm3/stroke	148.3	N-m	1600	44.5	mm3/stroke		N/A	N/A	N/A
D1803-CR-TI-EF	D1803-CR-TI-EF52	+	I-3	1.826	Liters	32.3	kilowatt	2400	41.7	mm3/stroke	148.3	N-m	1500	44.6	mm3/stroke		N/A	N/A	N/A
D1803-CR-TI-EF	D1803-CR-TI-EF52	+	I-3	1.826	Liters	29.7	kilowatt	2200	41.7	mm3/stroke	148.3	N-m	1500	44.6	mm3/stroke		N/A	N/A	N/A
D1803-CR-TI-EF	D1803-CK-11-EF53	-	1-3	1.820	Liters	29.7	KIIOWatt	2200	41.1	mma/stroke	148.3	IN-III	1500	44.6	mm3/stroke	IN/A	N/A	IN/A	IN/A
		-														-	-		+
		-														-	-		+
		-														-	-		+
		-														-	-		
		-														-	-		
		-														-	-		
																-	-		
		-	-													-	-	-	
		-														-	-		
		-																	
																-	-		
																-	-		
			-													-	-	-	
			-													-	-	-	