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	PKBXL02.4E1D	1.826, 2.435	Diesel	8000					
SPECIAL	FEATURES & EMISSION C	ONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Gas R	ic Direct Injection, Turb ecirculation, Electronic Trap Oxidizer, Diesel (	Control Module,	Loader, Tractor, Pump, Compressor, Asphalt Finisher, Carrier, Construction Machinery, Forklift, Garden Tractor Mini Backhoe, Mower, Roller, Skid Steer Loader, Off-Road Sweeper, Utility Vehicle, Wood Chipper, 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			l	EXHAUST (g/kw-l	OPACITY (%)				
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	РМ	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			3.1	0.03	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).

**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  $37 \le kW < 56$  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  $\underline{/3tk}$  day of October 2022.

Jolin U. Lang

Robin U. Lang, Chief U Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-025-1069

 Family:
 PKBXL02.4E1D
 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	<ul> <li>Peak Torque -</li> <li>Fuel Units</li> </ul>	OBD	GHG	Special	Notes
C2.4-CR-T-EW	C2.4-CR-T-EW04		I-4	2.435	Liters	42.6	kilowatt	2400	42.2	mm3/stroke	195.6	N-m	1500	46.4	mm3/stroke	1	N/A	N/A	N/A
D1803-CR-T-EW	D1803-CR-T-EW01		1-3	1.826	Liters	36.5	kilowatt	2700	43.1	mm3/stroke	148.3	N-m	1600	46.1	mm3/stroke	-	N/A	N/A	N/A
V2403-CR-T-EW	V2403-CR-T-EW01		1-4	2.435	Liters	50.2	kilowatt	2700	44.6	mm3/stroke	206.4	N-m	1600	48.7	mm3/stroke	N/A	N/A	N/A	N/A
V2403-CR-T-EW	V2403-CR-T-EW02		1-4	2.435	Liters	49.3	kilowatt	2700	44.0	mm3/stroke	195.6	N-m	1600	46.0	mm3/stroke	N/A	N/A	N/A	N/A
V2403-CR-T-EW	V2403-CR-T-EW03		1-4	2.435	Liters	47.9	kilowatt	2700	43.2	mm3/stroke	195.6	N-m	1600	46.0	mm3/stroke		N/A	N/A	N/A
V2403-CR-T-EW	V2403-CR-T-EW04		1-4	2.435	Liters	42.6	kilowatt	2400	42.2	mm3/stroke	195.6	N-m	1500	46.4	mm3/stroke	-	N/A	N/A	N/A
V2403-CR-T-EW	V2403-CR-T-EW04L		1-4	2.435	Liters	42.6	kilowatt	2400	42.2	mm3/stroke	195.6	N-m	1500	46.4	mm3/stroke	-	N/A	N/A	N/A
V2403-CR-T-EW	V2403-CR-T-EW05		1-4	2.435	Liters	39.0	kilowatt	2200	41.0	mm3/stroke	195.6	N-m	1500	46.4	mm3/stroke	-	N/A	N/A	N/A
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