

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	PVSXL16.1HPE	16.1	Diesel	8000					
SPECIA	AL FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Exhaust ( Periodic	c Control Module, Elect Turbocharger, Charge Gas Recirculation, Dies Trap Oxidizer, Ammon Selective Catalytic Red	Air Cooler, el Oxidation Catalyst, a Oxidation Catalyst,	Loader, Hauler, Excavator, W	heel Loader					

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-ł		OPACITY (%)						
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK			
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A			
		CERT	0.02	0.17		0.02	0.01						

**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>10th</u> day of January 2023.

Jolin U. Lang

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

Attachment 1 of 1: Engine Models EO #: U-R-003-0108				Family	Family: PVSXL16.1HPE Attachment Revised: 12/28/2022														
					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
D16J	16-33	N/A	16	16.1	Liters	495	kilowatt	1900	105	kg/hr	3200	N-m	1140	452	mm3/stroke	N/A	N/A	None	Tested Engine
D16J	16-61	N/A	16	16.1	Liters	470	kilowatt	1900	98	kg/hr	2525	N-m	1350	413	mm3/stroke	N/A	N/A	None	None
D16J	16-31	N/A	16	16.1	Liters	397	kilowatt	1800	83	kg/hr	2550	N-m	1400	348	mm3/stroke	N/A	N/A	None	None
D16J	16-37	N/A	16	16.1	Liters	450	kilowatt	1650	94	kg/hr	2701	N-m	1400	382	mm3/stroke	N/A	N/A	None	None