

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	PDZXL02.9118	2.925	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Common Rail Direct Injection, Turbocharger, Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Continuous Trap Oxidizer			Off-Road Crane, Loader, Tractor, Dozer, Pump, Compressor, Material Handler	

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):

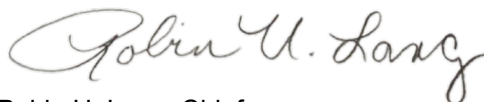
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT	--	--	4.1	0.4	0.006	--	--	--

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 1st day of December 2022.



Robin U. Lang, Chief
 Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-013-0706

Family: PDZXL02.9118

Attachment Last Revised: 10/5/2022

Model	Code	Trim	Config	Displacement	Displacement -		Peak Power -		Peak Power -		Peak Power - Fuel		Peak Torque -		Peak Torque - Fuel		OBD	GHG	Special	Notes
					Units	Liters	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Peak Torque - Fuel	Units				
TD2.9L4	C5EI55E		L4	2.925	Liters	74.3	horsepower	2200	29.8	lb/hr	260	N-m	1600	22.0	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI45E		L4	2.925	Liters	60.3	horsepower	2200	23.9	lb/hr	215	N-m	1600	17.7	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI45D		L4	2.925	Liters	60.3	horsepower	2300	24.5	lb/hr	215	N-m	1600	17.7	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI45A		L4	2.925	Liters	60.3	horsepower	2600	26.5	lb/hr	215	N-m	1600	17.7	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI50E		L4	2.925	Liters	67.1	horsepower	2200	26.3	lb/hr	235	N-m	1600	19.5	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI50D		L4	2.925	Liters	67.1	horsepower	2300	27.0	lb/hr	235	N-m	1600	19.5	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI50A		L4	2.925	Liters	67.1	horsepower	2600	29.4	lb/hr	235	N-m	1600	19.5	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI55D		L4	2.925	Liters	74.3	horsepower	2300	29.6	lb/hr	260	N-m	1600	22.0	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI55A		L4	2.925	Liters	74.3	horsepower	2600	32.9	lb/hr	260	N-m	1600	22.0	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI55AG		L4	2.925	Liters	74.3	horsepower	2600	32.9	lb/hr	260	N-m	1600	22.0	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI55EH		L4	2.925	Liters	74.3	horsepower	2200	29.8	lb/hr	320	N-m	1601	28.0	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI55DH		L4	2.925	Liters	74.3	horsepower	2300	29.6	lb/hr	320	N-m	1602	28.0	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI55CH		L4	2.925	Liters	74.3	horsepower	2400	30.6	lb/hr	320	N-m	1603	28.0	lb/hr	N/A	N/A	N/A	N/A	
TD2.9L4	C5EI55AH		L4	2.925	Liters	74.3	horsepower	2600	32.9	lb/hr	320	N-m	1604	28.0	lb/hr	N/A	N/A	N/A	N/A	