

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	PDZXL03.6123	3.621	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Common Rail Direct Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation, Electronic Control Module, Diesel Oxidation Catalyst, Continuous Trap Oxidizer, Selective Catalytic Reduction-Urea			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
56 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.01	0.14	--	0.1	0.002	--	--	--


**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 56 ≤ kW < 130 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 19th day of January 2023.

  
 Robin U. Lang, Chief  
 Emissions Certification and Compliance Division

Model	Code	Trim	Config	Displacement	Displacement -		Peak Power -		Peak Power -	Peak Power -	Peak Power - Fuel	Peak Torque	Peak Torque -	Peak Torque -	Peak Torque - Fuel		OBD	GHG	Special	Notes
					Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Units	Speed (rpm)	Units							
TCD3.6L4	C5V1105DU		I4	3.621	Liters	140.8	horsepower	2300	110	mm3/stroke	550	N-m	1600	127.0	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V1105EU		I4	3.621	Liters	140.8	horsepower	2200	113.5	mm3/stroke	550	N-m	1600	127	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V1105GU		I4	3.621	Liters	140.8	horsepower	2000	121	mm3/stroke	550	N-m	1600	127	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V1100DU		I4	3.621	Liters	134.1	horsepower	2300	104.5	mm3/stroke	500	N-m	1600	113.8	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V1100EU		I4	3.621	Liters	134.1	horsepower	2200	107	mm3/stroke	500	N-m	1600	113.8	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V1100GU		I4	3.621	Liters	134.1	horsepower	2000	115	mm3/stroke	500	N-m	1600	113.8	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V195DU		I4	3.621	Liters	127.3	horsepower	2300	99.5	mm3/stroke	500	N-m	1600	113.8	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V195EU		I4	3.621	Liters	127.3	horsepower	2200	102.5	mm3/stroke	500	N-m	1600	113.8	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V195GU		I4	3.621	Liters	127.3	horsepower	2000	109.5	mm3/stroke	500	N-m	1600	113.8	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V190DU		I4	3.621	Liters	120.6	horsepower	2300	94	mm3/stroke	480	N-m	1600	110	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V190EU		I4	3.621	Liters	120.6	horsepower	2200	97	mm3/stroke	480	N-m	1600	110	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V190GU		I4	3.621	Liters	120.6	horsepower	2000	103	mm3/stroke	480	N-m	1600	110	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V185DU		I4	3.621	Liters	113.9	horsepower	2300	89	mm3/stroke	460	N-m	1600	104.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V185EU		I4	3.621	Liters	113.9	horsepower	2200	92	mm3/stroke	460	N-m	1600	104.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V185GU		I4	3.621	Liters	113.9	horsepower	2000	98	mm3/stroke	460	N-m	1600	104.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V185DV		I4	3.621	Liters	113.9	horsepower	2300	83.5	mm3/stroke	430	N-m	1600	96	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V185EV		I4	3.621	Liters	113.9	horsepower	2200	86	mm3/stroke	430	N-m	1600	96	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V185GV		I4	3.621	Liters	113.9	horsepower	2000	92	mm3/stroke	430	N-m	1600	96	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V180DU		I4	3.621	Liters	107.2	horsepower	2000	84	mm3/stroke	430	N-m	1600	96	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V180EU		I4	3.621	Liters	107.2	horsepower	2200	86	mm3/stroke	430	N-m	1600	96	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V180GU		I4	3.621	Liters	107.2	horsepower	2000	92	mm3/stroke	430	N-m	1600	96	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V174DU		I4	3.621	Liters	99.7	horsepower	2300	78	mm3/stroke	410	N-m	1600	91.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V174EU		I4	3.621	Liters	99.7	horsepower	2200	80	mm3/stroke	410	N-m	1600	91.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V174GU		I4	3.621	Liters	99.7	horsepower	2000	85.5	mm3/stroke	410	N-m	1600	91.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V170EU		I4	3.621	Liters	93.8	horsepower	2200	75	mm3/stroke	390	N-m	1600	87	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V169EU		I4	3.621	Liters	93.1	horsepower	2200	74	mm3/stroke	397	N-m	1600	89	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V174EU		I4	3.621	Liters	99.9	horsepower	2200	78.5	mm3/stroke	420	N-m	1600	93.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V177EU		I4	3.621	Liters	103.2	horsepower	2200	81.5	mm3/stroke	440	N-m	1600	97.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V183EU		I4	3.621	Liters	111.33	horsepower	2200	87.5	mm3/stroke	476	N-m	1600	105.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V185EU		I4	3.621	Liters	114.5	horsepower	2200	90	mm3/stroke	480	N-m	1600	106.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V188EU		I4	3.621	Liters	118	horsepower	2200	92.5	mm3/stroke	500	N-m	1600	111.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V195EU		I4	3.621	Liters	127.3	horsepower	2200	100	mm3/stroke	500	N-m	1600	111.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V1100EU		I4	3.621	Liters	134.1	horsepower	2200	105	mm3/stroke	500	N-m	1600	111.5	mm3/stroke	N/A	N/A	N/A	N/A	
TCD3.6L4	C5V1105EU		I4	3.621	Liters	140.8	horsepower	2200	112	mm3/stroke	550	N-m	1600	126	mm3/stroke	N/A	N/A	N/A	N/A	