

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	PYDXL01.6NDA	1.642	Diesel	5000				
SPECIA	L FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
	Direct Injection, Exhau nic Control Module, Per Oxidation Cata	iodic Trap Oxidizer,	Crane, Dozer, Loader, Tractor, Pump, Compressor, 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	EMISSION				EXHAUST (g/kw-ł		OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	РМ	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	0.1	0.001			

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 12th day of January 2023.

Jolin U. Lang

Robin Ŭ. Lang, Chief () Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-028-1075

Family: PYDXL01.6NDA

Attachment Last Revised: 12/29/2022

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fue	I	Peak Torque -	ie - Peak Torque - Peak Torque - Fuel						
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units Peak Torque		Units	Speed (rpm)	Peak Torque - Fuel Units		OBD	GHG	Special	Notes
4KNDPC			13	1.642	Liters	38.3	horsepower	3000	31.4	mm3/stroke	79.3	lb-ft	1950	34.8	mm3/stroke				
4KNDAC			13	1.642	Liters	36.9	horsepower	3000	30.2	mm3/stroke	77.5	lb-ft	1950	34.1	mm3/stroke				
4KNKAC			13	1.642	Liters	34.2	horsepower	2800	29.4	mm3/stroke	77.5	lb-ft	1820	34	mm3/stroke				
4KNMAC			13	1.642	Liters	31.8	horsepower	2600	28.7	mm3/stroke	77.5	lb-ft	1690	34	mm3/stroke				
4KNNAC			13	1.642	Liters	30.6	horsepower	2500	28.4	mm3/stroke	77.5	lb-ft	1625	33.4	mm3/stroke				
4KNPAC			13	1.642	Liters	29.2	horsepower	2400	28.2	mm3/stroke	76.8	lb-ft	1560	33.1	mm3/stroke				
4KNDAC0T			13	1.642	Liters	36.9	horsepower	3000	30.2	mm3/stroke	77.5	lb-ft	1950	34.1	mm3/stroke				
4KNNAC0T			13	1.642	Liters	30.6	horsepower	2500	28.4	mm3/stroke	77.5	lb-ft	1625	33.4	mm3/stroke				