

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	PY9XL12.7DAA	12.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Smoke Puff Limiter, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst, Exhaust Gas Recirculation, Diesel Oxidation Catalyst (Except Engine Code DC13085A)			Crane, Loader, Tractor, Dozer, Pump, Compressor, Generator	

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):

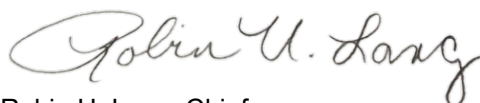
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.15	0.30	--	0.4	0.02	--	--	--

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 19th day of December 2022.



Robin U. Lang, Chief
 Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-024-0054

Family: PY9XL12.7DAA

Attachment Last Revised: 2/13/2023

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 Units	OBD	GHG	Special	Notes	
2722599	DC13 084A	N/A	N/A	12.7	Liters	294	kilowatt	2100	202	mm3/stroke	2157	N-m	1200	289	mm3/stroke	N/A	N/A	N/A	N/A
2722600	DC13 084A	N/A	N/A	12.7	Liters	331	kilowatt	2100	229	mm3/stroke	2255	N-m	1300	301	mm3/stroke	N/A	N/A	N/A	N/A
2722601	DC13 085A	N/A	N/A	12.7	Liters	368	kilowatt	2100	249	mm3/stroke	2373	N-m	1300	312	mm3/stroke	N/A	N/A	N/A	NO DOC
2722602	DC13 085A	N/A	N/A	12.7	Liters	405	kilowatt	1900	291	mm3/stroke	2375	N-m	1100	317	mm3/stroke	N/A	N/A	N/A	NO DOC
3 053 478	DC13 086A	N/A	N/A	12.7	Liters	405	kilowatt	1900	291	mm3/stroke	2370	N-m	1100	317	mm3/stroke	N/A	N/A	N/A	NEW RATING
2245984	DC13 087A	N/A	N/A	12.7	Liters	257	kilowatt	1800	193	mm3/stroke	1600	N-m	1300	218	mm3/stroke	N/A	N/A	N/A	N/A
2258254	DC13 087A	N/A	N/A	12.7	Liters	257	kilowatt	2100	179	mm3/stroke	1748	N-m	900	245	mm3/stroke	N/A	N/A	N/A	N/A
2245985	DC13 087A	N/A	N/A	12.7	Liters	283	kilowatt	1800	208	mm3/stroke	1765	N-m	1300	235	mm3/stroke	N/A	N/A	N/A	N/A
2245986	DC13 089A	N/A	N/A	12.7	Liters	257	kilowatt	1800	193	mm3/stroke	1600	N-m	1300	218	mm3/stroke	N/A	N/A	N/A	N/A
2245987	DC13 089A	N/A	N/A	12.7	Liters	283	kilowatt	1800	212	mm3/stroke	1765	N-m	1300	240	mm3/stroke	N/A	N/A	N/A	N/A