

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	PY9XL09.3DAA	9.3	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			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	0.07	0.23	--	0.2	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 14th day of December 2022.



Robin U. Lang, Chief
 Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-024-0053

Family: PY9XL09.3DAA

Attachment Last Revised: 11/28/2022

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	
2133492	DC09 084A		15	9.3	Liters	202	kilowatt	2100	161	mm3/stroke	1603	N-m	1100	263	mm3/stroke	N/A	N/A	N/A	N/A
2133493	DC09 085A		15	9.3	Liters	232	kilowatt	2100	185	mm3/stroke	1785	N-m	1200	289	mm3/stroke	N/A	N/A	N/A	N/A
2133494	DC09 085A		15	9.3	Liters	243	kilowatt	2100	192	mm3/stroke	1827	N-m	1200	295	mm3/stroke	N/A	N/A	N/A	N/A
2133495	DC09 085A		15	9.3	Liters	257	kilowatt	2100	203	mm3/stroke	1830	N-m	1200	296	mm3/stroke	N/A	N/A	N/A	N/A
2488302	DC09 085A		15	9.3	Liters	232	kilowatt	1800	208	mm3/stroke	1848	N-m	1200	298	mm3/stroke	N/A	N/A	N/A	N/A
2133496	DC09 086A		15	9.3	Liters	276	kilowatt	2100	218	mm3/stroke	1873	N-m	1300	305	mm3/stroke	N/A	N/A	N/A	N/A
2133497	DC09 086A		15	9.3	Liters	294	kilowatt	2100	238	mm3/stroke	1876	N-m	1400	311	mm3/stroke	N/A	N/A	N/A	N/A
2245949	DC09 087A		15	9.3	Liters	202	kilowatt	1800	176	mm3/stroke	1873	N-m	1200	227	mm3/stroke	N/A	N/A	N/A	N/A
2245951	DC09 089A		15	9.3	Liters	202	kilowatt	1800	176	mm3/stroke	1873	N-m	1200	227	mm3/stroke	N/A	N/A	N/A	N/A
2245952	DC09 089A		15	9.3	Liters	237	kilowatt	1800	211	mm3/stroke	1368	N-m	1100	234	mm3/stroke	N/A	N/A	N/A	N/A