

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	PLHAL16.2VQC	16.2	Diesel	8000
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLIC	ATION
Modul	rger, Charge Air Cooler e, Electronic Direct Inje st Reduction-Urea, Am Catalyst, DEF Quality	ection, Selective monia Oxidation	Crane, Loader, Dozer, Har	vester

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				EXHAUST (g/kw-ł		OPACITY (%)				
	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	РМ	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	0.02	0.35		1.1	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 $\underline{28th}$ day of September 2022.

Jolin U. Lang

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

Attachment: Engine Models

EO #: U-R-018-0209

Family: PLHAL16.2VQC Attachme

Attachment Last Revised: 8/1/2022

Model	Code T	Tring	Config	Displacement	Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fue Units	l Peak Torque	Peak Torque - Units	Peak Torque - Speed (rpm)	Peak Torque - Fue Peak Torque - Fuel Units		uel OBD GHO		Special	Notes
D9508 A7- 04			V8	16.162	Liters	677	horsepower	1900	285	mm3/stroke	2268	lb-ft	1350	315	mm3/stroke		N/A	N/A	N/A
04 D9508 A7- 04		N/A	V8	16.162	Liters	610	horsepower	1900	260	mm3/stroke	2268	lb-ft	1350	315	mm3/stroke	N/A	N/A	N/A	N/A
04 D9508 A7- 04		N/A	V8	16.162	Liters	677	horsepower	1900	285	mm3/stroke	2268	lb-ft	1350	315	mm3/stroke	N/A	N/A	N/A	N/A
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