

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	PHZXL1.95C51	1.463, 1.951	Diesel	8000				
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Die Rec	c Direct Injection, Peric sel Oxidation Catalyst, irculation, Electronic Co Turbocharger, Charge	Exhaust Gas ontrol Module,	Pump, Compressor, Genera	itor Set				

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-l		OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK	
19 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A	
		CERT			3.5	0.8	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  $37 \le kW < 56$  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  $\underline{27th}$  day of October 2022.

Jolin U. Lang

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

Attachment: Engine Models

EO #: U-R-034-0342

Family: PHZXL1.95C51 Attachn

Attachment Last Revised: 8/16/2022

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fuel		Peak Torque -	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		OBD	GHG	Special	Notes
3H50TICD	3H50TIC D-cs-15- IFN	N/A	13	1.46	Liters	25.5	kilowatt	1500	50.5	mm3/stroke	162.3381	N-m	1500	50.5	mm3/stroke	N/A	N/A	N/A	N/A
3H50TICD	3H50TIC D-cs-15- ICFN	N/A	13	1.46	Liters	22.6	kilowatt	1500	46	mm3/stroke	143.87612	N-m	1500	46	mm3/stroke	N/A	N/A	N/A	N/A
3H50TICD	3H50TIC D-cs-18- IFN	N/A	13	1.46	Liters	31.3	kilowatt	1800	50.5	mm3/stroke	166.0517167	N-m	1800	50.5	mm3/stroke	N/A	N/A	N/A	N/A
3H50TICD	3H50TIC D-cs-18- ICFN	N/A	13	1.46	Liters	28.5	kilowatt	1800	47	mm3/stroke	151.19725	N-m	1800	47	mm3/stroke	N/A	N/A	N/A	N/A
4H50TICD	4H50TIC D-cs-15- IFN	N/A	14	1.95	Liters	35	kilowatt	1500	50.5	mm3/stroke	222.817	N-m	1500	50.5	mm3/stroke	N/A	N/A	N/A	N/A
4H50TICD	4H50TIC D-cs-15- ICFN	N/A	14	1.95	Liters	31	kilowatt	1500	46	mm3/stroke	197.3522	N-m	1500	46	mm3/stroke	N/A	N/A	N/A	N/A
4H50TICD	4H50TIC D-cs-18- IFN	N/A	14	1.95	Liters	41	kilowatt	1800	49	mm3/stroke	217.5118333	N-m	1800	49	mm3/stroke	N/A	N/A	N/A	N/A
4H50TICD	4H50TIC D-cs-18- ICFN	N/A	14	1.95	Liters	36.4	kilowatt	1800	44	mm3/stroke	193.1080667	N-m	1800	44	mm3/stroke	N/A	N/A	N/A	N/A
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