

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	PFPXL12.9FR2	12.9	Diesel	8,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Engine Control Module, Turbocharger, Charge Air Cooler, Diesel Oxidation Catalyst, Periodic Trap Oxidizer, Selective Catalytic Reduction – Urea, Ammonia Oxidation Catalyst			Loader, Tractor, Generator Set, and Other Industrial Equipment	

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	<b>STD</b>	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		<b>CERT</b>	0.003	0.24	--	0.02	0.003	--	--	--

**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 7<sup>th</sup> day of July 2022.



Allen Lyons, Chief  
 Emissions Certification and Compliance Division

**Attachment: Engine Models**

**EO #:** U-R-015-0550

**Family:** PFPXL12.9FR2

**Attachment Last Revised:** 6/17/2022

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	Peak Torque - Fuel Units	OBD	GHG	Special	Notes
F3HGE613A*V	F3HGE613A*V	N/A	I6	12.9	Liters	591	horsepower	2100	285	mm3/stroke	1823.70	lb-ft	1500	330	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F3HGE613B*V	F3HGE613B*V	N/A	I6	12.9	Liters	563	horsepower	2100	275	mm3/stroke	1740.74	lb-ft	1500	320	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F3HGE613D*V	F3HGE613D*V	N/A	I6	12.9	Liters	496	horsepower	2100	248	mm3/stroke	1715.56	lb-ft	1500	320	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F3HGE613E*V	F3HGE613E*V	N/A	I6	12.9	Liters	429	horsepower	2100	216	mm3/stroke	1483.7	lb-ft	1500	278	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F3HGE615A*V	F3HGE615A*V	N/A	I6	12.9	Liters	603	horsepower	1800	338	mm3/stroke	1888.89	lb-ft	1400	338	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F3HGE615B*V	F3HGE615B*V	N/A	I6	12.9	Liters	551	horsepower	1800	304	mm3/stroke	1778.52	lb-ft	1400	304	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F3HGE613L*V	F3HGE613L*V	N/A	I6	12.9	Liters	545	horsepower	2100	277	mm3/stroke	1778.52	lb-ft	1400	322	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F3HGE613K*V	F3HGE613K*V	N/A	I6	12.9	Liters	515	horsepower	2100	250	mm3/stroke	1672.59	lb-ft	1400	298	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F3HGE613J*V	F3HGE613J*V	N/A	I6	12.9	Liters	464	horsepower	2100	231	mm3/stroke	1490.37	lb-ft	1400	266	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX