



FPT INDUSTRIAL S.p.A.

EXECUTIVE ORDER U-R-015-0449-1
New Off-Road
Compression-Ignition Engines

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)
2021	MFPXL03.4BSD	3.4	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Electronic Control Module, Turbocharger, Diesel Oxidation Catalyst, Exhaust Gas Recirculation			Loader, Tractor, Dozer, and Other	

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
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT	--	--	4.2	3.7	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.

This Executive Order hereby supersedes Executive Order U-R-015-0449 dated December 8, 2021.

Executed on this 16th day of September 2021.

Allen Lyons, Chief
Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-015-0449-1

Family: MFPXL03.4BSD

Attachment Last Revised: 7/28/2021

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	
F5HFL463D*G	F5HFL463D*G	N/A	I4	3.4	Liters	74	horsepower	2200	64	mm3/stroke	236	lb-ft	1400	78	mm3/stroke	N/A	N/A	N/A	DDI ECM TC DOC EGR
F5HFL463B*G	F5HFL463B*G	N/A	I4	3.4	Liters	58	horsepower	2500	48	mm3/stroke	185	lb-ft	1400	64	mm3/stroke	N/A	N/A	N/A	DDI ECM TC DOC EGR
F5HFL463C*G	F5HFL463C*G	N/A	I4	3.4	Liters	64	horsepower	2500	54	mm3/stroke	193	lb-ft	1400	68	mm3/stroke	N/A	N/A	N/A	DDI ECM TC DOC EGR
F5DFL463B*G	F5DFL463B*G	N/A	I4	3.4	Liters	64	horsepower	2300	66	mm3/stroke	204	lb-ft	1500	54	mm3/stroke	N/A	N/A	N/A	DDI ECM TC DOC EGR
F5DFL463A*G	F5DFL463A*G	N/A	I4	3.4	Liters	74	horsepower	2300	61	mm3/stroke	229	lb-ft	1500	76	mm3/stroke	N/A	N/A	N/A	DDI ECM TC DOC EGR
F5HFL463A*G	F5HFL463A*G	N/A	I4	3.4	Liters	74	horsepower	2500	59	mm3/stroke	233	lb-ft	1400	77	mm3/stroke	N/A	N/A	N/A	DDI ECM TC DOC EGR
F5DFL463C*G	F5DFL463C*G	N/A	I4	3.4	Liters	58	horsepower	2300	48	mm3/stroke	181	lb-ft	1500	60	mm3/stroke	N/A	N/A	N/A	DDI ECM TC DOC EGR
F5DFL413B*H	F5DFL413B*H	N/A	I4	3.4	Liters	74	horsepower	2300	60	mm3/stroke	309	lb-ft	1500	70	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC EGR
F5DGL463A*G	F5DGL463A*G	N/A	I4	3.4	Liters	74	horsepower	2300	62	mm3/stroke	236	lb-ft	1500	80	mm3/stroke	N/A	N/A	New parent	DDI ECM TC CAC DOC EGR
F5HGL463A*G	F5HGL463A*G	N/A	I4	3.4	Liters	74	horsepower	2500	59	mm3/stroke	231	lb-ft	1500	77	mm3/stroke	N/A	N/A	New rating	DDI ECM TC CAC DOC EGR
F5HGL463B*G	F5HGL463B*G	N/A	I4	3.4	Liters	74	horsepower	2500	59	mm3/stroke	235	lb-ft	1500	78	mm3/stroke	N/A	N/A	New rating	DDI ECM TC CAC DOC EGR