

FPT INDUSTRIAL S.p.A.

EXECUTIVE ORDER U-R-015-0487

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)				
2022	NFPXL03.4DEP	3.4	Diesel	8000				
SPECI	AL FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Turbocharg	onic Direct Injection, Elect ger, Charged Air Cooler, E sel Oxidation Catalyst, Per	xhaust Gas Recirculation,	Loader, Tractor, Dozer, Pump, Gener	ator Set 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	EMISSION			I	EXHAUST (g/kw-l	OPACITY (%)					
POWER CLASS	STANDARD CATEGORY		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		-	4.1	1.4	0.004				

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 <u>30th</u> day of March 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-015-0487

Family: NFPXL03.4DEP Attachment Last Revised: 3/16/2021

								Peak Torque -		Peak Torque - Fue	l								
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque Units	Units	Speed (rpm)	Peak Torque - Fue	l Units	OBD GHG		Special	Notes
F5HGL413E*X	F5HGL413E*X		14	3.4	Liters	74	horsepower	2200	60	mm3/stroke	424	N-m	1200	96	mm3/stroke				DDI ECM TC EGR DOC PTOX CAC
F5HGL413D*X	F5HGL413D*X		14	3.4	Liters	74	horsepower	2500	57	mm3/stroke	424	N-m	1200	96	mm3/stroke				DDI ECM TC EGR DOC PTOX CAC
F5DGL413E*X	F5DGL413E*X		14	3.4	Liters	74	horsepower	2300	58	mm3/stroke	309	N-m	1500	70	mm3/stroke				DDI ECM TC EGR DOC PTOX CAC
F5HGL415A*X	F5HGL415A*X		14	3.4	Liters	74	horsepower	1800	65	mm3/stroke	424	N-m	1200	91	mm3/stroke				DDI ECM TC EGR DOC PTOX CAC
F5DGL413H*X	F5DGL413H*X		14	3.4	Liters	74	horsepower	2300	58	mm3/stroke	375	N-m	1500	8	mm3/stroke				DDI ECM TC EGR DOC PTOX CAC
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