

## FPT INDUSTRIAL S.p.A.

## **EXECUTIVE ORDER U-R-015-0539**

New Off-Road Compression-Ignition Engines Page 1 of 1

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	PFPXL03.4DEP	3.4	Diesel 8000							
SPECIAL	FEATURES & EMISSION O	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION							
Module, T	onic Direct Injection, El urbocharger, Charged ecirculation, Diesel Ox Periodic Trap Oxid	Air Cooler, Exhaust idation Catalyst,	Loader, Tractor, Dozer, Pump, Gener Industrial Equipmen							

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-ł	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	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 \_\_\_\_\_\_\_ day of July 2022.

Allen Lyons, Chief

Johns Shi for

**Emissions Certification and Compliance Division** 

Attachment: Engine Models	EO #: U-R-015-0539	Family: PFPXL03.4DEP	Attachment Last Revised:	6/8/2022

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fue	l	Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
F5HGL413E*X	F5HGL413E*X		14	3.4	Liters	74		2200	60	mm3/stroke			4200	0.5	2/				DDI ECM TC EGR DOC
F5HGL413E*X	F5HGL413E X	N/A	14	3.4	Liters	74	horsepower	2200	60	mm3/stroke	424	N-m	1200	96	mm3/stroke	N/A	N/A	N/A	PTOX CAC
F5HGL413D*X	F5HGL413D*X	NI/A	14	3.4	Liters	74	horsepower	2500	57	mm3/stroke	424	N-m	1200	96	mm3/stroke	N/A	N/A	N/A	DDI ECM TC EGR DOC
rondt413D.X	F3HGL413D X	IN/A	14	5.4	Liters	/4	norsepower	2500	37	IIIIII5/SUOKE	424	IN-III	1200	96	IIIII3/Stroke	IN/A	IN/A	IN/A	PTOX CAC
F5DGL413E*X	F5DGL413E*X	NI/A	14	3.4	Liters	74	horsepower	2300	58	mm3/stroke	309	N-m	1500	70	mm3/stroke	N/A	N/A	N/A	DDI ECM TC EGR DOC
TJDGE413E X	13DGL413L X	IN/A	144	3.4	Liters	/4	Horsepower	2300	38	IIIIII5/3ti oke	309	IN-III	1300	70	IIIII3/3tioke	IN/A	IN/A		PTOX CAC
F5HGL415A*X	F5HGL415A*X	NI/A	14	3.4	Liters	74	horsepower	1800	65	mm3/stroke	424	N-m	1200	91	mm3/stroke	N/A	N/A	N/A	DDI ECM TC EGR DOC
TOTIGE 413A X	TOTIGE#13A X	IN/A	144	3.4	Litters	/4	Horsepower	1800	03	IIIII3/3ti oke	424	IN-III	1200	91	IIIII3/3tioke	IN/A	IN/A	IN/A	PTOX CAC
F5DGL413H*X	F5DGL413H*X	NI/A	14	3.4	Liters	74	horsepower	2300	58	mm3/stroke	375	N-m	1400	83	mm3/stroke	N/A	N/A	N/A	DDI ECM TC EGR DOC
L2DQF4T2U.Y	robul415H X	IN/A	14	5.4	Liters	/4	Horsepower	2300	36	IIIII5/SUOKE	3/3	IN-III	1400	0.5	IIIII5/SUOKE	N/A	IN/A	IN/A	PTOX CAC