

FPT INDUSTRIAL S.p.A.

EXECUTIVE ORDER U-R-015-0562

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	PFPXL02.8DE1	Diesel	2.8	8,000					
SPECIAL	. FEATURES & EMISSION (CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Module, T	onic Direct Injection, El Turbocharger, Charged Recirculation, Diesel Ox Periodic Trap Oxi	Air Cooler, Exhaust idation Catalyst,	Loader, Tractor, Dozer, Pump, Generator Set, 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	EMISSION				EXHAUST (g/kw-l		OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
36 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A N/A 4.7		5.0	0.03	N/A	N/A	N/A
		CERT			3.6	0.7	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).

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 5^{th} day of July 2022.

Folmo Sahi for Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-015-0562 Family: PFPXL02.8DE1 Attachment Last Revised: 2/7/2023

					Displacement -	Peak	Peak Power -	Peak Power -	Peak Power -	Peak Power -		Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -			
Model	Code	Trim	Config	Displacement	Units	Power	Units	Speed (rpm)	Fueling	Fuel Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special Notes
F6BFL413A*V	F6BFL413A*V	N/A	14	2.797	Liters	74	horsepower	2300	58.4	mm3/stroke	278	lb-ft	1400	86.3	mm3/stroke	N/A	N/A	N/A DDI ECM TC DOC PTOX
F6AFL413A*V	F6AFL413A*V	N/A	14	2.797	Liters	74	horsepower	2500	56	mm3/stroke	278	lb-ft	1400	86.3	mm3/stroke	N/A	N/A	N/A DDI ECM TC DOC PTOX
F6BFL413B*V	F6BFL413B*V	N/A	14	2.797	Liters	67	horsepower	2300	53.5	mm3/stroke	240	lb-ft	1400	73	mm3/stroke	N/A	N/A	N/A DDI ECM TC DOC PTOX
F6BFL413D*V	F6BFL413D*V	N/A	14	2.797	Liters	72	horsepower	2300	47.2	mm3/stroke	271	lb-ft	1400	56	mm3/stroke	N/A	N/A	New Rating DDI ECM TC DOC PTOX
F6AFL413B*V	F6AFL413B*V	N/A	14	2.797	Liters	72	horsepower	2500	54	mm3/stroke	271	lb-ft	1400	81.5	mm3/stroke	N/A	N/A	New Rating DDI ECM TC DOC PTOX
F6BFL413C*V	F6BFL413C*V	N/A	14	2.797	Liters	58	horsepower	2300	54	mm3/stroke	185	lb-ft	1400	81.5	mm3/stroke	N/A	N/A	New Rating DDI ECM TC DOC PTOX