

FPT INDUSTRIAL S.p.A.

EXECUTIVE ORDER U-R-015-0541

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	PFPXL03.6EH1	3.6	Diesel	8000				
SPECIAL	. FEATURES & EMISSION (CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Exhau Module, Perio	nic Direct Injection, Chast Gas Recirculation, E Turbocharger, Diesel C odic Trap Oxidizer, Sele ion - Urea, Ammonia O	lectronic Control Dxidation Catalyst, ective Catalytic	Loader, Tractor, Doze	ır				

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	EMISSION			ı	EXHAUST (g/kw-l		OPACITY (%)			
CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
56 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.01	0.33	1	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).

BE IT FURTHER RESOLVED: That for the listed engine models which include engines from different power categories in the same engine family, the manufacturer is complying with the more stringent set of standards from the 56 ≤ kW < 130 power categories in conformance with the incorporated Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for New 2011 and Later Tier 4 Off-Road Compression Ignition Engines, Part 1-D" adopted October 20, 2005 and last amended October 25, 2012.

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 24^{th} day of June 2022.

Allen Lyons, Chief

Gobne Sahi for

Emissions Certification and Compliance Division

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fue		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
FF1 C1 44 2 1917	551.61.4431817		T.,				T .			-4					-4			T	DDI CAC EGR ECM T
F5LGL413J*V	F5LGL413J*V	N/A	14	3.6	Liters	141	horsepower	2300	102	mm3/stroke	443	lb-ft	1500	133	mm3/stroke	N/A	N/A	N/A	DOC PTOX SCR AMO
FF1 C1 44 3 4 \$1 /				2.6		445	T .	2300		2/	373	lb-ft	1300	112	2/		N/A	N/A	DDI CAC EGR ECM T
F5LGL413A*V	F5LGL413A*V	N/A	14	3.6	Liters	115	horsepower	2300	88	mm3/stroke	3/3	ID-TT	1300	113	mm3/stroke	N/A N/	N/A		DOC PTOX SCR AMO
FFI CL 443 C 8 V	N/A	14	2.6	Liters	100		2300	02	mm3/stroke	362	lb-ft	1200	110	mm3/stroke	N/A	N/A	N/A	DDI CAC EGR ECM T	
F5LGL413C*V	F5LGL413C*V	IN/A	14	3.6	Liters	109	horsepower	2300	83	mm3/stroke	362	ID-Tt	1300	110	mm3/stroke	ilis/stroke N/A N/A	IN/A	DOC PTOX SCR AMO	
FF1 C1 443D*\/		N/A		2.6	Liters	00	h	2300	76	mm3/stroke	222	lb-ft	1200	101	mm3/stroke	N/A	N1 / A	N/A	DDI CAC EGR ECM T
F5LGL413D*V	F5LGL413D*V	IN/A	14	3.6	Liters	99	horsepower	2300	76	mm3/stroke	332	ID-Tt	1300	101	mm3/stroke	IN/A	N/A	N/A	DOC PTOX SCR AMO
F5LGL413E*V	5LGL413E*V F5LGL413E*V	N/A	14	3.6	Liters	89	horsepower	2300	68	mm3/stroke	280	lb-ft	1300	85	mm3/stroke	N/A	N/A	N/A	DDI CAC EGR ECM T
FOLGL413E V	F3LGL413E V	IN/A	14	3.0	Liters	09	Horsepower	2500	00	IIIII5/Stroke	200	10-11	1500	00	IIIIII5/Stroke	IN/A	IN/A	IN/A	DOC PTOX SCR AMO
FF1 61 44 3 F \$1 4 4 3 F \$1 4	F5LGL413F*V	N/A	14	3.6	Liters	79	horsepower	2300	61	mm3/stroke	244	lb-ft	1300	74	mm3/stroke	N/A	N/A	N/A	DDI CAC EGR ECM TO
F5LGL413F*V	F5LGL413F*V	ISF*V N/A														IN/A	IN/A		DOC PTOX SCR AMO
5MGL413A*V F5MGL413A*V	2A*\/ NI/A	14	3.6	Liters	110	horsepower	2200	102	mm3/stroke	340	lb-ft	1400	100	mm3/stroke	N/A	N/A	N/A	DDI CAC EGR ECM TO	
F3IVIGL413A V	F5IVIGL415A V	IN/A	14	3.0	Liters	110	Horsepower	2200	102	IIIII5/Stroke	340	10-11	1400	100	IIIIII5/Stroke	IN/A	IV/A	IN/A	DOC PTOX SCR AMO
FF. 401 44 3 D \$1/	FENACI 4430*)/			2.6	124	97		2200	101	mm3/stroke	334	lb-ft	1400	0.5	2/			N/A	DDI CAC EGR ECM TO
F5MGL413B*V	F5MGL413B*V	IN/A	14	3.6	Liters	97	horsepower	2200	101	mm3/stroke	334	ID-TT	1400	95	mm3/stroke	N/A	N/A	N/A	DOC PTOX SCR AMO