

FPT INDUSTRIAL S.p.A.

EXECUTIVE ORDER U-R-015-0547

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	PFPXL03.6EHP	3.6	Diesel	8,000					
SPECIAL	. FEATURES & EMISSION (CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Exhau Module, Perio	nic Direct Injection, Cha st Gas Recirculation, E Turbocharger, Diesel C odic Trap Oxidizer, Sele ion - Urea, Ammonia C	lectronic Control Dxidation Catalyst, ective Catalytic	Loader, Tractor, Dozer, Pump, Genei Industrial Equipment	rator Set, 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	EMISSION			E	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	-	0.04	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 _________ day of July 2022.

Allen Lyons, Chief

Golma Sahi for

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-015-0547 Family: PFPXL03.6EHP Attachment Last Revised: 6/13/2022

Model		Trim	Config	Displacement	Displacement -	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fuel		Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
	Code				Units					Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
5MGL413C*V	F5MGL413C*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	DDI CAC EGR ECM TC
		,,,		0.0	2.00.0								2000	100		,	,		DOC PTOX SCR AMOX
F5LGL413P*V	F5LGL413P*V	N/A	14	3.6	Liters	141	horsepower	2300	102	mm3/stroke	443	lb-ft	1500	133	mm3/stroke	N/A N/	N/A	N/A	DDI CAC EGR ECM TC
	V JEGETTS! V	14/7		3.0	Litters	1,1	norsepower		102	Tillio, stroke		10.10	1500	133	iiiii5/3ti oke				DOC PTOX SCR AMOX
F5LGL413K*V F5LGL413K*\	F5LGL413K*V	N/A	14	3.6	Liters	123	horsepower	2200	95	mm3/stroke	382	lb-ft	1300	116	mm3/stroke	N/A	N/A	N/A	DDI CAC EGR ECM TC
1 JLGL413K V	T SEGL415K V	IN/A	1-4	3.0	Litters	123	Horsepower	2200	93	THITIS/SCIORE	382	ID-IC	1300	110	IIIII5/3troke	14/7		IN/A	DOC PTOX SCR AMOX
5MGL413D*V F5MGL413D*V	NI/A	14	3.6	Liters	121	horsepower	2300	93	mm3/stroke	382	lb-ft	1300	116	mm3/stroke	N/A	N/A	N/A	DDI CAC EGR ECM TC	
TSIVIOL413D V	13111014130 1	14/7		3.0	Litters	121	Horsepower	2500		Tillis/stroke	302	ID-TC	1300	110	mms/stroke	14/7	14/7	IN/A	DOC PTOX SCR AMOX
F5LGL413R*V	F5LGL413R*V	N/A	14	3.6	Liters	121	horsepower	2300	93	mm3/stroke	362	lb-ft	1400	109	mm3/stroke	N/A	N/A	N/A	DDI CAC EGR ECM TC
T JEGE 415K V	T SEGL415IV V	IN/A	1-4	3.0	Litters	121	Horsepower	2300	93	THITIS/SCIORE	302	ID-IC	1400	103	IIIII5/3troke	14/7	13/7	IN/A	DOC PTOX SCR AMOX
F5LGL413B*V	F5LGL413B*V	13B*V N/A I4	3.6	Liters	118	horsepower	2200	93	mm3/stroke	382	lb-ft	1300	116	mm3/stroke	N/A	N/A	N/A	DDI CAC EGR ECM TC	
roldl413b V	F3LGL413B V	IN/A	14	3.0	Litters	110	Horsepower	2200	93	IIIII3/3tioke	362	ID-IC	1300	110	IIIIII5/3tioke	IN/A	IN/A	IN/A	DOC PTOX SCR AMOX
F5LGL413L*V	13L*V F5LGL413L*V	N/A	14	3.6	Liters	111	horsepower	2200	88	mm3/stroke	340	lb-ft	1400	102	mm3/stroke	N/A	N/A	N/A	DDI CAC EGR ECM TC
roldl415L V	F3LGL413L V	IN/A	14	3.0	Litters	111	Horsepower	2200	00	IIIII3/3tioke	340	ID-IC	1400	102	IIIIII5/3tioke	IN/A			DOC PTOX SCR AMOX
F5LGL413Y*V	F5LGL413Y*V	N/A	14	3.6	Liters	109	horsepower	2200	86	mm3/stroke	362	lb-ft	1300	110	mm3/stroke	N/A	N/A	N/A	DDI CAC EGR ECM TC
roldl4151 V	F3LGL4131 V	IN/A	14	3.0	Liters	109	Horsepower	2200	80	IIIII3/3tioke	302	ID-IC	1300	110	IIIIII5/3tioke	IN/A	IN/A	IN/A	DOC PTOX SCR AMOX
F5MGL413E*V	F5MGL413E*V	N/A	14	3.6	Liters	101	horsepower	2300	77	mm3/stroke	317	lb-ft	1400	96	mm3/stroke	NI/A	N/A	N/A	DDI CAC EGR ECM TC
r5IVIGL413L V	F3WGL413L V	IN/A	14	3.0	Liters	101	Horsepower	2300		IIIII3/3tioke	317	ID-IC	1400	90	IIIIII5/3tioke	N/A			DOC PTOX SCR AMOX
FFI CL 4436*V	F5LGL413S*V	N/A	14	3.6	Liters	101	horsepower	2200	81	mm3/stroke	317	lb-ft	1400	96	mm2/stroko	NI/A	N/A	N/A	DDI CAC EGR ECM TC
F5LGL413S*V	L4133 V F5LGL4135 V	IN/A	14												mm3/stroke	N/A			DOC PTOX SCR AMOX
F5LGL413T*V	F5LGL413T*V	N/A	14	3.6	Litors	04	horsonowor	2200	74	mm2/stroko	292	lb-ft	1400	00	mm2/stroko	NI /A	N/A	N/A	DDI CAC EGR ECM TC
F3LGL4131 V	+131 V F3LGL4131 V	IN/A	14	3.0	Liters	94	horsepower	2200	/4	mm3/stroke	292	TT-di	1400	88	mm3/stroke	N/A			DOC PTOX SCR AMOX
F5LGL413U*V F5LGL41	F5LGL413U*V	NI/A	14	3.6	Litors	85	horsonower	2200	67	mm2/stroles	261	lb-ft	1400	78	mama 2 /atmalia	N/A	N1 / A	N/A	DDI CAC EGR ECM TC
F3LGL413U · V	F3LGL413U"V	IN/A	14	3.0	Liters	85	horsepower	2200	0/	mm3/stroke	261	10-11	1400	/ 6	mm3/stroke	IN/A	N/A	IN/A	DOC PTOX SCR AMOX
FFN4CL442F*\/	EEMCL4125*\/	NI/A	14	2.6	Litors	O.E.	harsonover	2300	CF	mm2/stroke	261	lb-ft	h ft 1400	70		21/2	NI/A	NI /A	DDI CAC EGR ECM TC
F5MGL413F*V	F5MGL413F*V	IN/A	14	3.6	Liters	85	horsepower	2300	65	mm3/stroke	261	TI-di	1400	78	mm3/stroke	N/A	N/A	N/A	DOC PTOX SCR AMOX