FPT INDUSTRIAL S.p.A.

EXECUTIVE ORDER U-R-015-0490 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	NFPXL03.6EH1	3.6	Diesel	8000			
SPECIAL	FEATURES & EMISSION C	ONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Turbocha	Direct Injection, Charged Recirculation, Electronic (Irger, Diesel Oxidation Ca Selective Catalytic Reduct Oxidation Cataly	talyst, Periodic Trap ion - Urea, Ammonia	Loaders, Tractor, Doze	-			

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 STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER CLASS			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		0.02	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 26th day of April 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models

Code

F5LGL413J*V

F5LGL413A*V

F5LGL413C*V N/A

F5LGL413D*V N/A

F5LGL413E*V N/A

F5MGL413A*V N/A

F5MGL413B*V N/A

F5LGL413F*V

Model

F5LGL413J*V

F5LGL413A*V

F5LGL413C*V

F5LGL413D*V

F5LGL413E*V

F5LGL413F*V

F5MGL413A*V

F5MGL413B*V

EO #: U-R-015-0490

Units

Liters

Config

Displacement

3.6

3.6

3.6

3.6

3.6

3.6

3.6

Trim

N/A

N/A

N/A

Family: NFPXL03.6EH1

97

horsepower

2200

101

mm3/stroke

334

Attachment Last Revised: 4/6/2021 Displacement -Peak Power -Peak Power -Peak Power -Peak Power - Fuel Peak Torque -Peak Torque -Peak Torque -Peak Torque -Peak Power Units Speed (rpm) Fueling Units Peak Torque Units Speed (rpm) Fuel Fuel Units OBD GHG Special Notes DDI CAC EGR ECM TC Liters horsepower 2300 mm3/stroke lb-ft 1500 133 mm3/stroke N/A N/A N/A DOC PTOX SCR-U AMOX DDI CAC EGR ECM TC horsepower 2300 88 mm3/stroke lb-ft 1300 mm3/stroke N/A N/A N/A DOC PTOX SCR-U AMOX DDI CAC EGR ECM TC 109 mm3/stroke 362 1300 110 Liters horsepower 2300 83 lb-ft mm3/stroke N/A N/A N/A DOC PTOX SCR-U AMOX DDI CAC EGR ECM TC 99 76 mm3/stroke 1300 Liters horsepower 2300 332 lb-ft 101 mm3/stroke N/A N/A N/A DOC PTOX SCR-U AMOX DDI CAC EGR ECM TC Liters 89 horsepower 2300 68 mm3/stroke 280 lb-ft 1300 85 mm3/stroke N/A N/A N/A DOC PTOX SCR-U AMOX DDI CAC EGR ECM TC Liters 79 horsepower 2300 61 mm3/stroke 244 lb-ft 1300 74 mm3/stroke N/A N/A N/A DOC PTOX SCR-U AMOX DDI CAC EGR ECM TC 102 mm3/stroke Liters 110 horsepower 2200 340 lb-ft 1400 100 mm3/stroke N/A N/A N/A

lb-ft

1400

95

mm3/stroke N/A

N/A N/A

DOC PTOX SCR-U AMOX DDI CAC EGR ECM TC

DOC PTOX SCR-U AMOX