

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	NFPXL03.6EHP	3.6	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Charged Air Cooler, Exhaust Gas Recirculation, Electronic Control Module, Turbocharger, Diesel Oxidation Catalyst, Periodic Trap Oxidizer, Selective Catalytic Reduction - Urea, Ammonia Oxidation Catalyst			Loaders, Tractor, Dozer, Pump, Generator 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 CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	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 26th day of April 2021.



Allen Lyons, Chief
 Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-015-0493

Family: NFPXL03.6EHP

Attachment Last Revised: 4/7/2021

Model	Code	Trim	Config	Displacement	Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fuel Units	Peak Torque	Peak Torque - Units	Peak Torque - Speed (rpm)	Peak Torque - Fuel Units	OBD	GHG	Special	Notes	
F5MGL413C*V	F5MGL413C*V	n/a	I4	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 DOC PTOX SCR AMOX
F5LGL413P*V	F5LGL413P*V	n/a	I4	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 DOC PTOX SCR AMOX
F5LGL413K*V	F5LGL413K*V	n/a	I4	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 DOC PTOX SCR AMOX
F5MGL413D*V	F5MGL413D*V	n/a	I4	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 DOC PTOX SCR AMOX
F5LGL413R*V	F5LGL413R*V	n/a	I4	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 DOC PTOX SCR AMOX
F5LGL413B*V	F5LGL413B*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 DOC PTOX SCR AMOX
F5LGL413L*V	F5LGL413L*V	n/a	I4	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 DOC PTOX SCR AMOX
F5LGL413Y*V	F5LGL413Y*V	n/a	I4	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 DOC PTOX SCR AMOX
F5MGL413E*V	F5MGL413E*V	n/a	I4	3.6	Liters	101	horsepower	2300	77	mm3/stroke	317	lb-ft	1400	96	mm3/stroke	n/a	n/a	n/a	DDI CAC EGR ECM TC DOC PTOX SCR AMOX
F5LGL413S*V	F5LGL413S*V	n/a	I4	3.6	Liters	101	horsepower	2200	81	mm3/stroke	317	lb-ft	1400	96	mm3/stroke	n/a	n/a	n/a	DDI CAC EGR ECM TC DOC PTOX SCR AMOX
F5LGL413T*V	F5LGL413T*V	n/a	I4	3.6	Liters	94	horsepower	2200	74	mm3/stroke	292	lb-ft	1400	88	mm3/stroke	n/a	n/a	n/a	DDI CAC EGR ECM TC DOC PTOX SCR AMOX
F5LGL413U*V	F5LGL413U*V	n/a	I4	3.6	Liters	85	horsepower	2200	67	mm3/stroke	261	lb-ft	1400	78	mm3/stroke	n/a	n/a	n/a	DDI CAC EGR ECM TC DOC PTOX SCR AMOX
F5MGL413F*V	F5MGL413F*V	n/a	I4	3.6	Liters	85	horsepower	2300	65	mm3/stroke	261	lb-ft	1400	78	mm3/stroke	n/a	n/a	n/a	DDI CAC EGR ECM TC DOC PTOX SCR AMOX