

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)
2021	MFPXL08.7FR1	8.7	Diesel	8,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Engine Control Module, Turbocharger, Charge Air Cooler, Diesel Oxidation Catalyst, Selective Catalytic Reduction – Urea/Periodic Trap Oxidizer, Ammonia Oxidation Catalyst			Loader, Tractor, Generator Set, and 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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.03	0.27	--	0.03	0.01	--	--	--

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 30th day of December 2020.



Allen Lyons, Chief
 Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-015-0461

Family: MFPXL08.7FR1

Attachment Last Revised: 12/23/2020

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
F2CGE614 E*V	F2CGE614E*V		I6	8.7	Liters	432.82	horsepower	2000	218	mm3/stroke	1370.37037	lb-ft	1400	263				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614 D*V	F2CGE614D*V		I6	8.7	Liters	403.34	horsepower	2000	205	mm3/stroke	1334.074074	lb-ft	1400	256				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614 C*V	F2CGE614C*V		I6	8.7	Liters	379.22	horsepower	2000	191	mm3/stroke	1308.888889	lb-ft	1400	251				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614 B*V	F2CGE614B*V		I6	8.7	Liters	345.72	horsepower	2000	174	mm3/stroke	1234.814815	lb-ft	1400	236				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614 A*V	F2CGE614A*V		I6	8.7	Liters	312.22	horsepower	2000	158	mm3/stroke	1163.703704	lb-ft	1400	222				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613 E*V	F2CGE613E*V		I6	8.7	Liters	412.72	horsepower	2100	203	mm3/stroke	1333.333333	lb-ft	1500	250				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613 D*V	F2CGE613D*V		I6	8.7	Liters	368.5	horsepower	2100	181	mm3/stroke	1240.740741	lb-ft	1500	221				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613 B*V	F2CGE613B*V		I6	8.7	Liters	328.3	horsepower	2100	161	mm3/stroke	1118.518519	lb-ft	1500	209				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613 A*V	F2CGE613A*V		I6	8.7	Liters	301.5	horsepower	2100	148	mm3/stroke	1000	lb-ft	1500	185				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE615 A*V	F2CGE615A*V		I6	8.7	Liters	452.92	horsepower	1800	255	mm3/stroke	1328.148148	lb-ft	1800	255				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE615 B*V	F2CGE615B*V		I6	8.7	Liters	396.64	horsepower	1800	223	mm3/stroke	1162.962963	lb-ft	1800	223				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613 L*V	F2CGE613L*V		I6	8.7	Liters	368.5	horsepower	2100	211	mm3/stroke	1240.740741	lb-ft	1500	229				DDI ECM TC CAC DOC SCR+DPF AMOX

F2CGE613 M*V	F2CGE61 3M*V		l6	8.7	Liters	328.3	horsepower	2100	188	mm3/stroke	1118.518519	lb-ft	1500	211	mm3/stroke				DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613 K*V	F2CGE61 3K*V		l6	8.7	Liters	412.72	horsepower	2100	203	mm3/stroke	1333.333333	lb-ft	1500	250	mm3/stroke				DDI ECM TC CAC DOC SCR+DPF AMOX