

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	MFPXL08.7CLA	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, 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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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	NO _x	NMHC+NO _x	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	0.005	0.24	--	0.04	0.02	--	--	--

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-015-0458

Family: MFPXL08.7CLA

Attachment Last Revised: 12/14/2020

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
F2CFE614 A*B	F2CFE614A*B		I6	8.7	Liters	408.7	horsepower	2000	200	mm3/stroke	1370.37037	lb-ft	1400	248				DDI ECM TC CAC DOC SCR-u AMOX
F2CFE614 *B	F2CFE614J*B		I6	8.7	Liters	419.42	horsepower	2000	205	mm3/stroke	1370.37037	lb-ft	1400	244				DDI ECM TC CAC DOC SCR-u AMOX
F2CFE614 K*B	F2CFE614K*B		I6	8.7	Liters	403.34	horsepower	2000	196	mm3/stroke	1334.074074	lb-ft	1400	241				DDI ECM TC CAC DOC SCR-u AMOX
F2CFE614 L*B	F2CFE614L*B		I6	8.7	Liters	379.22	horsepower	2000	184	mm3/stroke	1308.888889	lb-ft	1400	235				DDI ECM TC CAC DOC SCR-u AMOX
F2CFE614 M*B	F2CFE614M*B		I6	8.7	Liters	345.72	horsepower	2000	188	mm3/stroke	1234.814815	lb-ft	1400	221				DDI ECM TC CAC DOC SCR-u AMOX
F2CFE614 N*B	F2CFE614N*B		I6	8.7	Liters	312.22	horsepower	2000	152	mm3/stroke	1163.703704	lb-ft	1400	211				DDI ECM TC CAC DOC SCR-u AMOX
F2CFE614 P*B	F2CFE614P*B		I6	8.7	Liters	432.82	horsepower	2000	216	mm3/stroke	1370.37037	lb-ft	1400	244				DDI ECM TC CAC DOC SCR-u AMOX
F2CFE614 R*B	F2CFE614R*B		I6	8.7	Liters	432.82	horsepower	2000	214	mm3/stroke	1370.37037	lb-ft	1400	247				DDI ECM TC CAC DOC SCR-u AMOX