

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	PFPXL08.7FR1	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):

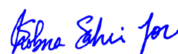
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.03	0.27	--	0.03	0.01	--	--	--

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 7th day of July 2022.



Allen Lyons, Chief
 Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-015-0551

Family: PPFXL08.7FR1

Attachment Last Revised: 3/20/2023

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	Peak Torque - Fuel Units	OBD	GHG	Special	Notes
F2CGE614E*V	F2CGE614E*V	N/A	16	8.7	Liters	433	horsepower	2000	218	mm3/stroke	1370.37	lb-ft	1400	263	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614D*V	F2CGE614D*V	N/A	16	8.7	Liters	403	horsepower	2000	205	mm3/stroke	1334.07	lb-ft	1400	256	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614C*V	F2CGE614C*V	N/A	16	8.7	Liters	379	horsepower	2000	191	mm3/stroke	1308.89	lb-ft	1400	251	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614B*V	F2CGE614B*V	N/A	16	8.7	Liters	346	horsepower	2000	174	mm3/stroke	1234.81	lb-ft	1400	236	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614A*V	F2CGE614A*V	N/A	16	8.7	Liters	312	horsepower	2000	158	mm3/stroke	1163.7	lb-ft	1400	222	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613E*V	F2CGE613E*V	N/A	16	8.7	Liters	413	horsepower	2100	203	mm3/stroke	1333.33	lb-ft	1500	250	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613D*V	F2CGE613D*V	N/A	16	8.7	Liters	369	horsepower	2100	181	mm3/stroke	1240.74	lb-ft	1500	221	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613B*V	F2CGE613B*V	N/A	16	8.7	Liters	328	horsepower	2100	161	mm3/stroke	1118.52	lb-ft	1500	209	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613A*V	F2CGE613A*V	N/A	16	8.7	Liters	302	horsepower	2100	148	mm3/stroke	1000	lb-ft	1500	185	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE615A*V	F2CGE615A*V	N/A	16	8.7	Liters	453	horsepower	1800	255	mm3/stroke	1328.15	lb-ft	1800	255	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE615B*V	F2CGE615B*V	N/A	16	8.7	Liters	397	horsepower	1800	223	mm3/stroke	1162.96	lb-ft	1800	223	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613L*V	F2CGE613L*V	N/A	16	8.7	Liters	369	horsepower	2100	211	mm3/stroke	1240.74	lb-ft	1500	229	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613M*V	F2CGE613M*V	N/A	16	8.7	Liters	328	horsepower	2100	188	mm3/stroke	1118.52	lb-ft	1500	211	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE613K*V	F2CGE613K*V	N/A	16	8.7	Liters	413	horsepower	2100	203	mm3/stroke	1333.33	lb-ft	1500	250	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614L*V	F2CGE614L*V	N/A	16	8.7	Liters	315	horsepower	2100	152	mm3/stroke	1188	lb-ft	1400	223	mm3/stroke	N/A	N/A	New Rating	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614M*V	F2CGE614M*V	N/A	16	8.7	Liters	289	horsepower	2100	140	mm3/stroke	1096	lb-ft	1400	205	mm3/stroke	N/A	N/A	New Rating	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614F*V	F2CGE614F*V	N/A	16	8.7	Liters	409	horsepower	2000	205	mm3/stroke	1370	lb-ft	1400	258	mm3/stroke	N/A	N/A	New Rating	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614K*V	F2CGE614K*V	N/A	16	8.7	Liters	390	horsepower	2000	196	mm3/stroke	1370	lb-ft	1400	258	mm3/stroke	N/A	N/A	New Rating	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614G*V	F2CGE614G*V	N/A	16	8.7	Liters	370	horsepower	2000	185	mm3/stroke	1333	lb-ft	1400	249	mm3/stroke	N/A	N/A	New Rating	DDI ECM TC CAC DOC SCR+DPF AMOX
F2CGE614H*V	F2CGE614H*V	N/A	16	8.7	Liters	342	horsepower	2000	172	mm3/stroke	1263	lb-ft	1400	239	mm3/stroke	N/A	N/A	New Rating	DDI ECM TC CAC DOC SCR+DPF AMOX