

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	PFPXL06.7FR2	6.7	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			Tractor, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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
75 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		FEL	N/A	N/A	--	N/A	0.01	N/A	N/A	N/A
		CERT	0.01	0.31	--	0.1	0.004	--	--	--

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 130 ≤ kW ≤ 560 power category 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 7th day of July 2022.



Allen Lyons, Chief
Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-015-0554

Family: PFPXL06.7FR2

Attachment Last Revised: 6/22/2022

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
F4DGE617D*V	F4DGE617D*V	N/A	I6	6.7	Liters	296	horsepower	2100	143	mm3/stroke	949.63	lb-ft	1400	178	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE617E*V	F4DGE617E*V	N/A	I6	6.7	Liters	267	horsepower	2100	130	mm3/stroke	884.44	lb-ft	1400	170	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE617K*V	F4DGE617K*V	N/A	I6	6.7	Liters	247	horsepower	2100	121	mm3/stroke	868.89	lb-ft	1400	162	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613C*V	F4DGE613C*V	N/A	I6	6.7	Liters	256	horsepower	2200	120	mm3/stroke	858.52	lb-ft	1500	160	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613Y*V	F4DGE613Y*V	N/A	I6	6.7	Liters	248	horsepower	2300	119	mm3/stroke	815.56	lb-ft	1500	148	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613U*V	F4DGE613U*V	N/A	I6	6.7	Liters	233	horsepower	2300	112	mm3/stroke	768.89	lb-ft	1500	142	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613D*V	F4DGE613D*V	N/A	I6	6.7	Liters	213	horsepower	2300	100	mm3/stroke	697.78	lb-ft	1500	130	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613T*V	F4DGE613T*V	N/A	I6	6.7	Liters	193	horsepower	2200	92	mm3/stroke	660	lb-ft	1500	121	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613V*V	F4DGE613V*V	N/A	I6	6.7	Liters	173	horsepower	2200	84	mm3/stroke	594.07	lb-ft	1500	112	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE4132*V	F4DGE4132*V	N/A	I4	4.5	Liters	142	horsepower	2300	103	mm3/stroke	437.04	lb-ft	1500	125	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613N*V	F4DGE613N*V	N/A	I6	6.7	Liters	202	horsepower	2200	94	mm3/stroke	696.3	lb-ft	1500	128	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE6137*V	F4DGE6137*V	N/A	I6	6.7	Liters	197	horsepower	2300	94	mm3/stroke	648.15	lb-ft	1500	122	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613S*V	F4DGE613S*V	N/A	I6	6.7	Liters	182	horsepower	2300	87	mm3/stroke	596.3	lb-ft	1500	112	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE6139*V	F4DGE6139*V	N/A	I6	6.7	Liters	168	horsepower	2300	81	mm3/stroke	555.56	lb-ft	1500	106	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE614A*V	F4DGE614A*V	N/A	I6	6.7	Liters	147	horsepower	2200	75	mm3/stroke	518.52	lb-ft	1500	99	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE4131*V	F4DGE4131*V	N/A	I4	4.5	Liters	172	horsepower	2300	124	mm3/stroke	518.52	lb-ft	1500	145	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE413G*V	F4DGE413G*V	N/A	I4	4.5	Liters	165	horsepower	2300	119	mm3/stroke	518.52	lb-ft	1500	145	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE413H*V	F4DGE413H*V	N/A	I4	4.5	Liters	151	horsepower	2300	111	mm3/stroke	474.07	lb-ft	1500	135	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE6136*V	F4DGE6136*V	N/A	I6	6.7	Liters	172	horsepower	2300	81	mm3/stroke	546.67	lb-ft	1500	104	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE614H*V	F4DGE614H*V	N/A	I6	6.7	Liters	161	horsepower	2300	77	mm3/stroke	523.7	lb-ft	1500	99	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE617L*V	F4DGE617L*V	N/A	I6	6.7	Liters	278	horsepower	2200	125	mm3/stroke	921.2	lb-ft	1300	173	mm3/stroke	N/A	N/A	N/A	DDI ECM TC CAC DOC SCR+DPF AMOX