

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	MFPXL06.7FR2	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) 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	-				0.01			
		CERT	0.01	0.31	--	0.1	0.004	--	--	--

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 hereby supersedes Executive Order U-R-015-0481 dated March 11, 2021.

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 10th day of November 2021.



Allen Lyons, Chief
Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-015-0481-1

Family: MFPXL06.7FR2

Attachment Last Revised: 10/6/2021

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
F4DGE617 D*V	F4DGE617D*V		I6	6.7	Liters	296.14	horsepower	2100	143	mm3/stroke	949.63	lb-ft	1400	178				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE617 E*V	F4DGE617E*V		I6	6.7	Liters	266.66	horsepower	2100	130	mm3/stroke	884.44	lb-ft	1400	170				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE617 K*V	F4DGE617K*V		I6	6.7	Liters	246.56	horsepower	2100	121	mm3/stroke	868.89	lb-ft	1400	162				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613 C*V	F4DGE613C*V		I6	6.7	Liters	255.94	horsepower	2200	120	mm3/stroke	858.52	lb-ft	1500	160				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613 Y*V	F4DGE613Y*V		I6	6.7	Liters	247.9	horsepower	2300	119	mm3/stroke	815.56	lb-ft	1500	148				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613 U*V	F4DGE613U*V		I6	6.7	Liters	233.16	horsepower	2300	112	mm3/stroke	768.89	lb-ft	1500	142				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613 D*V	F4DGE613D*V		I6	6.7	Liters	213.06	horsepower	2300	100	mm3/stroke	697.78	lb-ft	1500	130				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613 T*V	F4DGE613T*V		I6	6.7	Liters	192.96	horsepower	2200	92	mm3/stroke	660.00	lb-ft	1500	121				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613 V*V	F4DGE613V*V		I6	6.7	Liters	172.86	horsepower	2200	84	mm3/stroke	594.07	lb-ft	1500	112				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE413 2*V	F4DGE4132*V		I4	4.5	Liters	142.04	horsepower	2300	103	mm3/stroke	437.04	lb-ft	1500	125				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613 N*V	F4DGE613N*V		I6	6.7	Liters	202.34	horsepower	2200	94	mm3/stroke	696.30	lb-ft	1500	128				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613 7*V	F4DGE6137*V		I6	6.7	Liters	196.98	horsepower	2300	94	mm3/stroke	648.15	lb-ft	1500	122				DDI ECM TC CAC DOC SCR+DPF AMOX

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EO #: U-R-015-0481-1

Family: MFPXL06.7FR2

Attachment Last Revised: 10/6/2021

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
F4DGE613 S*V	F4DGE61 3S*V		I6	6.7	Liters	182.24	horsepower	2300	87	mm3/stroke	596.30	lb-ft	1500	112				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613 9*V	F4DGE61 39*V		I6	6.7	Liters	167.5	horsepower	2300	81	mm3/stroke	555.56	lb-ft	1500	106				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE614 A*V	F4DGE61 4A*V		I6	6.7	Liters	147.4	horsepower	2200	75	mm3/stroke	518.52	lb-ft	1500	99				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE413 1*V	F4DGE41 31*V		I4	4.5	Liters	171.52	horsepower	2300	124	mm3/stroke	518.52	lb-ft	1500	145				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE413 G*V	F4DGE41 3G*V		I4	4.5	Liters	164.82	horsepower	2300	119	mm3/stroke	518.52	lb-ft	1500	145				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE413 H*V	F4DGE41 3H*V		I4	4.5	Liters	151.42	horsepower	2300	111	mm3/stroke	474.07	lb-ft	1500	135				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE613 6*V	F4DGE61 36*V		I6	6.7	Liters	171.52	horsepower	2300	81	mm3/stroke	546.67	lb-ft	1500	104				DDI ECM TC CAC DOC SCR+DPF AMOX
F4DGE614 H*V	F4DGE61 4H*V		I6	6.7	Liters	160.8	horsepower	2300	77	mm3/stroke	523.70	lb-ft	1500	99				DDI ECM TC CAC DOC SCR+DPF AMOX