

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	MFPXL03.4FSD	3.4	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Electronic Control Module, Turbocharger, Charge Air Cooler, Diesel Oxidation Catalyst, Selective Catalytic Reduction - Urea, Ammonia Oxidation Catalyst, Exhaust Gas Recirculation			Loader, Tractor, Generator Set, and 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
56 ≤ kW < 130	Tier 4 Final	<b>STD</b>	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		<b>CERT</b>	0.004	0.33	--	0.05	0.02	--	--	--

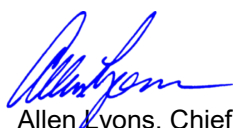
**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

**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 56 ≤ kW < 130 power categories 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 17th day of December 2020.



Allen Lyons, Chief  
 Emissions Certification and Compliance Division

**Attachment: Engine Models**

**EO #:** U-R-015-0453

**Family:** MFPXL03.4FSD

**Attachment Last Revised:** 12/1/2020

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
F5BFL414J*B	F5BFL414J*B		I4	3.4	Liters	121	horsepower	2200	92	mm3/stroke	363	lb-ft	2200	111				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414J*B	F5GFL414J*B		I4	3.4	Liters	121	horsepower	2200	92	mm3/stroke	363	lb-ft	2200	111				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414J*B	854F-E34TAN4260/2200		I4	3.4	Liters	121	horsepower	2200	92	mm3/stroke	363	lb-ft	2200	111				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414J*B	C3.4B4260/2200		I4	3.4	Liters	121	horsepower	2200	92	mm3/stroke	363	lb-ft	2200	111				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414J*B	854F-E34TAN4260/2200		I4	3.4	Liters	121	horsepower	2200	92	mm3/stroke	363	lb-ft	2200	111				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414J*B	C3.4B4260/2200		I4	3.4	Liters	121	horsepower	2200	92	mm3/stroke	363	lb-ft	2200	111				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414H*B	F5BFL414H*B		I4	3.4	Liters	84	horsepower	2200	63	mm3/stroke	262	lb-ft	2200	78				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414H*B	F5GFL414H*B		I4	3.4	Liters	84	horsepower	2200	63	mm3/stroke	262	lb-ft	2200	78				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414H*B	854F-E34TAN4270/2200		I4	3.4	Liters	84	horsepower	2200	63	mm3/stroke	262	lb-ft	2200	78				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414H*B	C3.4B4270/2200		I4	3.4	Liters	84	horsepower	2200	63	mm3/stroke	262	lb-ft	2200	78				DDI ECM TC CAC DOC SCR-u AMOX EGR

F5BFL414 H*B	854F- E34TAN4 270/220 0		I4	3.4	Liters	84	horsepower	2200	63	mm3/stroke	262	lb-ft	2200	78	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 H*B	C3.4B42 70/2200		I4	3.4	Liters	84	horsepower	2200	63	mm3/stroke	262	lb-ft	2200	78	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 E*B	F5BFL41 4E*B		I4	3.4	Liters	94	horsepower	2200	70	mm3/stroke	293	lb-ft	2200	86	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 E*B	F5GFL41 4E*B		I4	3.4	Liters	94	horsepower	2200	70	mm3/stroke	293	lb-ft	2200	86	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 E*B	854F- E34TAN4 276/220 0		I4	3.4	Liters	94	horsepower	2200	70	mm3/stroke	293	lb-ft	2200	86	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 E*B	C3.4B42 76/2200		I4	3.4	Liters	94	horsepower	2200	70	mm3/stroke	293	lb-ft	2200	86	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 E*B	854F- E34TAN4 276/220 0		I4	3.4	Liters	94	horsepower	2200	70	mm3/stroke	293	lb-ft	2200	86	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 E*B	C3.4B42 76/2200		I4	3.4	Liters	94	horsepower	2200	70	mm3/stroke	293	lb-ft	2200	86	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 A*B	F5BFL41 4A*B		I4	3.4	Liters	101	horsepower	2200	75	mm3/stroke	319	lb-ft	2200	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 A*B	F5GFL41 4A*B		I4	3.4	Liters	101	horsepower	2200	75	mm3/stroke	319	lb-ft	2200	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR

F5BFL414 A*B	854F- E34TAN4 266/220 0		I4	3.4	Liters	101	horsepower	2200	75	mm3/stroke	319	lb-ft	2200	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 A*B	C3.4B42 66/2200		I4	3.4	Liters	101	horsepower	2200	75	mm3/stroke	319	lb-ft	2200	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 A*B	854F- E34TAN4 266/220 0		I4	3.4	Liters	101	horsepower	2200	75	mm3/stroke	319	lb-ft	2200	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 A*B	C3.4B42 66/2200		I4	3.4	Liters	101	horsepower	2200	75	mm3/stroke	319	lb-ft	2200	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 B*B	F5BFL41 4B*B		I4	3.4	Liters	111	horsepower	2200	83	mm3/stroke	341	lb-ft	2200	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 B*B	F5GFL41 4B*B		I4	3.4	Liters	111	horsepower	2200	83	mm3/stroke	341	lb-ft	2200	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 B*B	854F- E34TAN4 264/220 0		I4	3.4	Liters	111	horsepower	2200	83	mm3/stroke	341	lb-ft	2200	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 B*B	C3.4B42 64/2200		I4	3.4	Liters	111	horsepower	2200	83	mm3/stroke	341	lb-ft	2200	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 B*B	854F- E34TAN4 264/220 0		I4	3.4	Liters	111	horsepower	2200	83	mm3/stroke	341	lb-ft	2200	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 B*B	C3.4B42 64/2200		I4	3.4	Liters	111	horsepower	2200	83	mm3/stroke	341	lb-ft	2200	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR

F5BFL414 F*B	F5BFL41 4F*B		I4	3.4	Liters	88	horsepower	2500	62	mm3/stroke	274	lb-ft	2500	84	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 F*B	F5GFL41 4F*B		I4	3.4	Liters	88	horsepower	2500	62	mm3/stroke	274	lb-ft	2500	84	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 F*B	854F- E34TAN4 282/250 0		I4	3.4	Liters	88	horsepower	2500	62	mm3/stroke	274	lb-ft	2500	84	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 F*B	C3.4B42 82/2500		I4	3.4	Liters	88	horsepower	2500	62	mm3/stroke	274	lb-ft	2500	84	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 F*B	854F- E34TAN4 282/250 0		I4	3.4	Liters	88	horsepower	2500	62	mm3/stroke	274	lb-ft	2500	84	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 F*B	C3.4B42 82/2500		I4	3.4	Liters	88	horsepower	2500	62	mm3/stroke	274	lb-ft	2500	84	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 D*B	F5BFL41 4D*B		I4	3.4	Liters	101	horsepower	2500	70	mm3/stroke	319	lb-ft	2500	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 D*B	F5GFL41 4D*B		I4	3.4	Liters	101	horsepower	2500	70	mm3/stroke	319	lb-ft	2500	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 D*B	854F- E34TAN4 274/250 0		I4	3.4	Liters	101	horsepower	2500	70	mm3/stroke	319	lb-ft	2500	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 D*B	C3.4B42 74/2500		I4	3.4	Liters	101	horsepower	2500	70	mm3/stroke	319	lb-ft	2500	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR

F5GFL414 D*B	854F- E34TAN4 274/250 0		I4	3.4	Liters	101	horsepower	2500	70	mm3/stroke	319	lb-ft	2500	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 D*B	C3.4B42 74/2500		I4	3.4	Liters	101	horsepower	2500	70	mm3/stroke	319	lb-ft	2500	95	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 C*B	F5BFL41 4C*B		I4	3.4	Liters	115	horsepower	2500	80	mm3/stroke	311	lb-ft	2500	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 C*B	F5GFL41 4C*B		I4	3.4	Liters	115	horsepower	2500	80	mm3/stroke	311	lb-ft	2500	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 C*B	854F- E34TAN4 262/250 0		I4	3.4	Liters	115	horsepower	2500	80	mm3/stroke	311	lb-ft	2500	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5BFL414 C*B	C3.4B42 62/2500		I4	3.4	Liters	115	horsepower	2500	80	mm3/stroke	311	lb-ft	2500	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 C*B	854F- E34TAN4 262/250 0		I4	3.4	Liters	115	horsepower	2500	80	mm3/stroke	311	lb-ft	2500	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR
F5GFL414 C*B	C3.4B42 62/2500		I4	3.4	Liters	115	horsepower	2500	80	mm3/stroke	311	lb-ft	2500	101	mm3/stroke				DDI ECM TC CAC DOC SCR-u AMOX EGR