

Pursuant to the authority vested in the California Air Resources Board by Health and Safety Code Division 26, Part 5, Chapters 1 and 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: The engines and emission control systems produced by the manufacturer as described below are certified 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	Combustion Cycle	Fuel Operation	Fuel Type(s)	Engine Operation
2024	RFPXL03.4ASD	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Electronic Direct Injection (DDI), Electronic Control Module (ECM), Turbocharger (TC), Charge Air Cooler (CAC), Selective Catalytic Reduction – Urea (SCR-U), Ammonia Oxidation Catalyst (AMOX), Exhaust Gas Recirculation (EGR)	None

The certified engine models are attached.

The listed engine models comply with the following: 1) emission standard limits (STD) and Not-To-Exceed (NTE) limits, as applicable, for criteria pollutants non-methane hydrocarbons (NMHC), nitrogen oxides (NOx), carbon monoxide (CO), and particulate matter (PM), and for smoke opacity as demonstrated during the Acceleration (ACL) and Lugging (LUG) modes, and the peak value (PEAK) in either mode of the Smoke Opacity cycle, as set forth in 13 CCR 2423 and the applicable California test procedures for off-road compression-ignition engines, and 2) family emission limits (FEL) declared by the manufacturer as allowed by the applicable California test procedures, stated in units of gram per kilowatt-hour (g/kW-hr) and percent opacity (%opacity), respectively, except as noted, or designated as not applicable (*).

Applicable Standard		Criteria				Smoke Opacity		
		NMHC	NOx	CO	PM	ACL	LUG	PEAK
Tier 4 Final 75 ≤ kW < 130	STD	0.19	0.40	5.0	0.02	*	*	*
	FEL	*	*	*	*	*	*	*
	NTE	0.28	0.60	6.2	0.03	*	*	*

BE IT FURTHER RESOLVED: Any declared FEL is the emission limit to which all engines must comply in lieu of the standard limit for certification purposes, subject to the restrictions of averaging, banking, or trading (ABT) programs allowed by the applicable California test procedures.

BE IT FURTHER RESOLVED: That the manufacturer has elected to combine engines from the 56 ≤ kW < 130 power categories into a single engine family. The listed engine models comply with the more stringent set of standards of the 75 ≤ kW < 130 power category in accordance with Section 1039.230(e) of the applicable California test procedures.

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

BE IT FURTHER RESOLVED: The listed engine models may only be installed in or on equipment such that engine operation is consistent with off-road compression-ignition engines as defined in 13 CCR 2421(a)(39).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed on this 26th day of January 2024.



Robin U. Lang, Chief
 Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RFPXL03.4ASD EO Number: U-R-015-0605 Date Applicable: 01/03/2024

Model	Code	Trim	Config	Displacement	Peak Power			Peak Torque			ECS Num	GHG	Notes
					Power	Speed	Fueling	Torque	Speed	Fueling			
-	-	-	-	L	kW	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
F5BFL413A*C	F5BFL413A*C		I4	3.4	89	1900	10	460	1400	103	1	N/A	
F5GFL413M*C	F5GFL413M*C		I4	3.4	73	1900	81	430	1500	94	1	N/A	
F5GFL413H*C	F5GFL413H*C		I4	3.4	73	1900	81	430	1500	93	1	N/A	
F5BFL413C*C	F5BFL413C*C		I4	3.4	80	2000	88	415	1400	94	1	N/A	
F5BFL413F*C	F5BFL413F*C		I4	3.4	85	2200	83	460	1400	98	1	N/A	
F5BFL413D*C	F5BFL413D*C		I4	3.4	67	2200	66	383	1400	85	1	N/A	
F5BFL413B*C	F5BFL413B*C		I4	3.4	84	2000	95	453	1400	101	1	N/A	
F5GFL413F*C	F5GFL413F*C		I4	3.4	86	1900	95	487	1500	108	1	N/A	
F5GFL413J*C	F5GFL413J*C		I4	3.4	63	1900	70	373	1500	81	1	N/A	
F5GFL413G*C	F5GFL413G*C		I4	3.4	79	1900	86	468	1500	102	1	N/A	
F5GFL413A*C	F5GFL413A*C		I4	3.4	89	1900	97	472	1500	106	1	N/A	
F5GFL413B*C	F5GFL413B*C		I4	3.4	84	2000	89	470	1500	101	1	N/A	
F5GFL413W*C	F5GFL413W*C		I4	3.4	73	1900	84	425	1500	92	1	N/A	
F5GFL413C*C	F5GFL413C*C		I4	3.4	80	2000	85	431	1500	92	1	N/A	
F5GFL413U*C	F5GFL413U*C		I4	3.4	86	1900	98	488	1500	106	1	N/A	
F5GFL413E*C	F5GFL413E*C		I4	3.4	92	1900	10	506	1500	115	1	N/A	
F5GFL413V*C	F5GFL413V*C		I4	3.4	79	1900	89	469	1500	101	1	N/A	
F5GFL413K*C	F5GFL413K*C		I4	3.4	90	1900	98	490	1500	110	1	N/A	
F5GFL413L*C	F5GFL413L*C		I4	3.4	84	1900	92	474	1500	105	1	N/A	