

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	RFPXL03.6EHP	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Electronic Direct Injection (DDI), Charged Air Cooler (CAC), Exhaust Gas Recirculation (EGR), Electronic Control Module (ECM), Turbocharger (TC), Diesel Oxidation Catalyst (DOC), Periodic Trap Oxidizer (PTOX), Selective Catalytic Reduction – Urea (SCR-U), Ammonia Oxidation Catalyst (AMOX)	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.

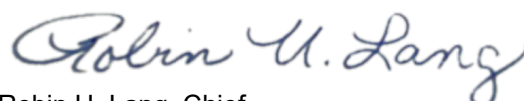
BE IT FURTHER RESOLVED: That the manufacturer has elected to combine engines from the 56 ≤ kW < 130 power categories into a single engine family. The listed engine models comply with the more stringent set of standards of the 75 ≤ kW < 130 power category in accordance with Section 1039.230(e) of the 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: RFPXL03.6EHP EO Number: U-R-015-0612 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	-	-	-
F5LGL413B*V	F5LGL413B*V		I4	3.6	88	2200	93	518	1300	116	1	N/A	
F5LGL413K*V	F5LGL413K*V		I4	3.6	92	2200	91	518	1300	116	1	N/A	
F5LGL413S*V	F5LGL413S*V		I4	3.6	75	2200	81	430	1400	96	1	N/A	
F5LGL413L*V	F5LGL413L*V		I4	3.6	83	2200	88	460	1400	102	1	N/A	
F5MGL413D*V	F5MGL413D*V		I4	3.6	90	2300	93	490	1400	109	1	N/A	
F5MGL413E*V	F5MGL413E*V		I4	3.6	75	2300	77	430	1400	96	1	N/A	
F5MGL415C*V	F5MGL415C*V		I4	3.6	71	1800	84	405	1400	83	1	N/A	
F5MGL413F*V	F5MGL413F*V		I4	3.6	63	2300	65	354	1400	78	1	N/A	
F5LGL413P*V	F5LGL413P*V		I4	3.6	105	2300	102	600	1500	133	1	N/A	
F5LGL413R*V	F5LGL413R*V		I4	3.6	90	2300	93	490	1400	109	1	N/A	
F5MGL413C*V	F5MGL413C*V		I4	3.6	105	2300	102	600	1500	133	1	N/A	
F5LGL413T*V	F5LGL413T*V		I4	3.6	70	2200	74	395	1400	88	1	N/A	
F5LGL413U*V	F5LGL413U*V		I4	3.6	63	2200	67	354	1400	78	1	N/A	
F5MGL415A*V	F5MGL415A*V		I4	3.6	105	1800	123	610	1400	120	1	N/A	
F5LGL413Y*V	F5LGL413Y*V		I4	3.6	81	2200	86	490	1300	110	1	N/A	
F5MGL415B*V	F5MGL415B*V		I4	3.6	94	1800	108	560	1400	101	1	N/A	