

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	RFPXL06.7SDA	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Electronic Direct Injection (DDI), Engine Control Module (ECM), Turbocharger (TC), Charge Air Cooler (CAC), Diesel Oxidation Catalyst (DOC), 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 130 ≤ kW ≤ 560	STD	0.19	0.40	3.5	0.02	*	*	*
	FEL	*	*	*	*	*	*	*
	NTE	0.28	0.60	4.4	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 75 ≤ kW ≤ 560 power categories into a single engine family. The listed engine models comply with the more stringent set of standards of the 130 ≤ kW ≤ 560 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: RFPXL06.7SDA EO Number: U-R-015-0608 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	-	-	-
F4DFE4131*B	F4DFE4131*B		I4	4.5	129	1800	145	700	1500	145	1	N/A	
F4DFE413H*B	F4DFE413H*B		I4	4.5	120	1900	128	660	1600	137	1	N/A	
F4DFE613K*B	F4DFE613K*B		I6	6.7	165	1900	121	940	1500	129	1	N/A	
F4DFE4133*B	F4DFE4133*B		I4	4.5	114	1800	131	636	1500	132	1	N/A	
F4DFE413K*B	F4DFE413K*B		I4	4.5	127	1900	135	710	1500	149	1	N/A	
F4DFE414Z*B	F4DFE414Z*B		I4	4.5	129	1800	145	700	1500	145	1	N/A	
F4DFE6136*B	F4DFE6136*B		I6	6.7	142	2000	97	831	1500	114	1	N/A	
F4DFE414E*B	F4DFE414E*B		I4	4.5	114	1800	128	650	1500	132	1	N/A	
F4DFE414D*B	F4DFE414D*B		I4	4.5	92	1800	105	528	1500	111	1	N/A	
F4DFE614Z*B	F4DFE614Z*B		I6	6.7	142	1800	102	802	1500	114	1	N/A	
F4DFE414C*B	F4DFE414C*B		I4	4.5	99	1800	114	560	1500	118	1	N/A	
F4DFE414X*B	F4DFE414X*B		I4	4.5	114	1800	131	636	1500	132	1	N/A	
F4DFE414B*B	F4DFE414B*B		I4	4.5	107	1800	123	605	1500	127	1	N/A	
F4DFE613J*B	F4DFE613J*B		I6	6.7	180	1800	133	1035	1500	144	1	N/A	
F4DFE4132*B	F4DFE4132*B		I4	4.5	124	1800	139	700	1500	145	1	N/A	
F4DFE414Y*B	F4DFE414Y*B		I4	4.5	124	1800	139	700	1500	145	1	N/A	
F4DFE4134*B	F4DFE4134*B		I4	4.5	107	1800	123	590	1500	124	1	N/A	
F4DFE414W*B	F4DFE414W*B		I4	4.5	107	1800	124	590	1500	124	1	N/A	
F4DFE613B*B	F4DFE613B*B		I6	6.7	199	1800	146	1160	1500	157	1	N/A	
F4DFE613H*B	F4DFE613H*B		I6	6.7	191	1800	141	1100	1500	148	1	N/A	
F4DFE613M*B	F4DFE613M*B		I6	6.7	154	1800	112	875	1500	122	1	N/A	
F4HFE413H*B	F4HFE413H*B		I4	4.5	120	1900	128	660	1600	137	1	N/A	
F4DFE617Z*B	F4DFE617Z*B		I6	6.7	201	1800	148	869	1400	160	1	N/A	
F4DFE617M*B	F4DFE617M*B		I6	6.7	212	1800	156	1194	1400	167	1	N/A	
F4DFE617L*B	F4DFE617L*B		I6	6.7	230	1800	170	1282	1400	179	1	N/A	
F4HFE4133*B	F4HFE4133*B		I4	4.5	114	1800	130	636	1500	132	1	N/A	
F4HFE413V*B	F4HFE413V*B		I4	4.5	129	1900	140	710	1500	148	1	N/A	
F4HFE4132*B	F4HFE4132*B		I4	4.5	124	1800	139	700	1500	145	1	N/A	
F4HFE413K*B	F4HFE413K*B		I4	4.5	127	1900	135	710	1500	149	1	N/A	
F4HFE4134*B	F4HFE4134*B		I4	4.5	107	1800	122	590	1500	124	1	N/A	
F4HFE4131*B	F4HFE4131*B		I4	4.5	129	1800	145	700	1500	145	1	N/A	
F4HFE414X*B	F4HFE414X*B		I4	4.5	114	1800	131	636	1500	132	1	N/A	
F4HFE415A*B	F4HFE415A*B		I4	4.5	126	1800	140	668	1800	140	1	N/A	
F4HFE613D*B	F4HFE613D*B		I6	6.7	190	1800	140	1055	1500	144	1	N/A	
F4HFE613R*B	F4HFE613R*B		I6	6.7	190	1800	147	1300	1300	188	1	N/A	
F4HFE6137*B	F4HFE6137*B		I6	6.7	167	1900	121	925	1500	125	1	N/A	
F4HFE613M*B	F4HFE613M*B		I6	6.7	154	1800	112	875	1500	122	1	N/A	
F4HFE414C*B	F4HFE414C*B		I4	4.5	99	1800	113	560	1500	118	1	N/A	
F4HFE413X*B	F4HFE413X*B		I4	4.5	106	1900	117	612	1500	127	1	N/A	
F4HFE6136*B	F4HFE6136*B		I6	6.7	142	2000	97	831	1500	114	1	N/A	
F4HFE613S*B	F4HFE613S*B		I6	6.7	172	1800	127	1184	1300	162	1	N/A	
F4HFE6134*B	F4HFE6134*B		I6	6.7	230	2000	156	1190	1700	163	1	N/A	
F4HFE414Y*B	F4HFE414Y*B		I4	4.5	124	1800	139	700	1500	145	1	N/A	
F4HFE614A*B	F4HFE614A*B		I6	6.7	230	2000	155	1160	1500	155	1	N/A	

ATTACHMENT: ENGINE MODELS

Family: RFPXL06.7SDA EO Number: U-R-015-0608 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	-	-	-
F4HFE615B*B	F4HFE615B*B		16	6.7	145	1800	111	769	1800	99	1	N/A	
F4HFE414W*B	F4HFE414W*B		14	4.5	107	1800	124	590	1500	124	1	N/A	
F4HFE613U*B	F4HFE613U*B		16	6.7	202	1900	141	1160	1500	157	1	N/A	
F4HFE414Z*B	F4HFE414Z*B		14	4.5	129	1800	145	700	1500	145	1	N/A	
F4HFE613G*B	F4HFE613G*B		16	6.7	164	1900	120	915	1600	127	1	N/A	
F4HFE6131*B	F4HFE6131*B		16	6.7	210	2200	132	1150	1500	154	1	N/A	
F4HFE613E*B	F4HFE613E*B		16	6.7	221	1800	163	1170	1800	163	1	N/A	
F4HFE613C*B	F4HFE613C*B		16	6.7	230	2000	162	1190	1800	164	1	N/A	
F4HFE613J*B	F4HFE613J*B		16	6.7	180	1800	133	1035	1500	144	1	N/A	
F4HFE613H*B	F4HFE613H*B		16	6.7	191	1800	141	1100	1500	148	1	N/A	
F4HFE413W*B	F4HFE413W*B		14	4.5	121	1900	130	700	1500	146	1	N/A	
F4HFE6138*B	F4HFE6138*B		16	6.7	143	1900	101	850	1400	119	1	N/A	
F4HFE613F*B	F4HFE613F*B		16	6.7	230	2000	155	1160	1500	155	1	N/A	
F4HFE613B*B	F4HFE613B*B		16	6.7	199	1800	146	1160	1500	157	1	N/A	
F4HFE613A*B	F4HFE613A*B		16	6.7	195	1900	135	1065	1600	143	1	N/A	
F4HFE615G*B	F4HFE615G*B		16	6.7	168	1800	125	886	1800	125	1	N/A	
F4HFE613K*B	F4HFE613K*B		16	6.7	165	1900	121	940	1500	129	1	N/A	
F4HFE415C*B	F4HFE415C*B		14	4.5	86	1800	98	451	1800	98	1	N/A	
F4HFE615D*B	F4HFE615D*B		16	6.7	195	1800	144	1035	1800	144	1	N/A	
F4HFE615E*B	F4HFE615E*B		16	6.7	223	1800	165	1183	1800	165	1	N/A	
F4HFE615C*B	F4HFE615C*B		16	6.7	167	1800	125	886	1800	125	1	N/A	
F4HFE615F*B	F4HFE615F*B		16	6.7	146	1800	111	769	1800	111	1	N/A	
F4HFE617M*B	F4HFE617M*B		16	6.7	212	1800	156	1194	1400	167	1	N/A	
F4HFE617L*B	F4HFE617L*B		16	6.7	230	1800	170	1282	1400	179	1	N/A	