

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	RCPXL12.5HTF	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). [2]: 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). [3]: 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). [4]: 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/kWh-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	*	*	*	0.01	*	*	*
	NTE	0.28	0.60	4.4	0.02	*	*	*

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: 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 28th day of April 2023.

Robin U. Lang, Chief
Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: UR-001-0679

Family: RCPXL12.5HTF

Date Applicable: 3/12/2023

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	Peak Torque - Fuel Units	OBD Status	OBD Fines (\$)	GHG	ECS #	Notes
C13	Cert Test 1	NA	I6	12.5	Liters	519	horsepower	2100	186	lb/hr	1752	lb-ft	1400	159	lb/hr	N/A	N/A	N/A	3	
C13	Cert Test 2	NA	I6	12.5	Liters	503	horsepower	1500	173.9	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	3	
C13	1	NA	I6	12.5	Liters	527	horsepower	1870	181.9	lb/hr	1750	lb-ft	1400	158	lb/hr	N/A	N/A	N/A	1	
C13	2	NA	I6	12.5	Liters	479	horsepower	1870	162.5	lb/hr	1635	lb-ft	1400	148	lb/hr	N/A	N/A	N/A	1	
C13	3	NA	I6	12.5	Liters	421	horsepower	1870	146	lb/hr	1434	lb-ft	1400	130.5	lb/hr	N/A	N/A	N/A	3	
C13	4	NA	I6	12.5	Liters	375	horsepower	2000	132.5	lb/hr	1575	lb-ft	1300	132.2	lb/hr	N/A	N/A	N/A	1	
C13	5	NA	I6	12.5	Liters	384	horsepower	2100	136.1	lb/hr	1297	lb-ft	1400	115.7	lb/hr	N/A	N/A	N/A	1	
C13	6	NA	I6	12.5	Liters	414	horsepower	2100	146.5	lb/hr	1398	lb-ft	1400	126	lb/hr	N/A	N/A	N/A	1	
C13	7	NA	I6	12.5	Liters	439	horsepower	2100	154.9	lb/hr	1482	lb-ft	1400	132.3	lb/hr	N/A	N/A	N/A	1	
C13	7A	NA	I6	12.5	Liters	439	horsepower	2100	154.9	lb/hr	1482	lb-ft	1400	132.3	lb/hr	N/A	N/A	N/A	1	
C13	8	NA	I6	12.5	Liters	473	horsepower	2100	168.9	lb/hr	1601	lb-ft	1400	145.3	lb/hr	N/A	N/A	N/A	1	
C13	9	NA	I6	12.5	Liters	519	horsepower	2100	185.6	lb/hr	1752	lb-ft	1400	159.3	lb/hr	N/A	N/A	N/A	1	
C13	10	NA	I6	12.5	Liters	355	horsepower	2050	127.2	lb/hr	1564	lb-ft	1200	121.9	lb/hr	N/A	N/A	N/A	1	
C13	11	NA	I6	12.5	Liters	425	horsepower	1800	148.4	lb/hr	1338	lb-ft	1650	143.7	lb/hr	N/A	N/A	N/A	1	
C13	11A	NA	I6	12.5	Liters	425	horsepower	1800	148.4	lb/hr	1338	lb-ft	1650	143.7	lb/hr	N/A	N/A	N/A	1	
C13	12	NA	I6	12.5	Liters	416	horsepower	2100	152.9	lb/hr	1612	lb-ft	1200	125.2	lb/hr	N/A	N/A	N/A	1	
C13	12A	NA	I6	12.5	Liters	416	horsepower	2100	152.9	lb/hr	1612	lb-ft	1200	125.2	lb/hr	N/A	N/A	N/A	1	
C13	12B	NA	I6	12.5	Liters	416	horsepower	2100	152.9	lb/hr	1612	lb-ft	1200	125.2	lb/hr	N/A	N/A	N/A	1	
C13	12C	NA	I6	12.5	Liters	416	horsepower	2100	152.9	lb/hr	1612	lb-ft	1200	125.2	lb/hr	N/A	N/A	N/A	1	
C13	13	NA	I6	12.5	Liters	429	horsepower	2100	162.2	lb/hr	1612	lb-ft	1200	126.3	lb/hr	N/A	N/A	N/A	1	
C13	13A	NA	I6	12.5	Liters	429	horsepower	2100	162.2	lb/hr	1612	lb-ft	1200	126.3	lb/hr	N/A	N/A	N/A	1	
C13	13B	NA	I6	12.5	Liters	429	horsepower	2100	162.2	lb/hr	1612	lb-ft	1200	126.3	lb/hr	N/A	N/A	N/A	1	
C13	14	NA	I6	12.5	Liters	527	horsepower	1870	181.9	lb/hr	1746	lb-ft	1400	157.6	lb/hr	N/A	N/A	N/A	2	
C13	15	NA	I6	12.5	Liters	479	horsepower	1870	162.5	lb/hr	1635	lb-ft	1400	148	lb/hr	N/A	N/A	N/A	2	
C13	16	NA	I6	12.5	Liters	421	horsepower	1870	146	lb/hr	1434	lb-ft	1400	130.5	lb/hr	N/A	N/A	N/A	2	
C13	17	NA	I6	12.5	Liters	363	horsepower	2000	127.9	lb/hr	1351	lb-ft	1000	90.3	lb/hr	N/A	N/A	N/A	1	
C13	18	NA	I6	12.5	Liters	307	horsepower	1850	108.5	lb/hr	1194	lb-ft	1200	94.4	lb/hr	N/A	N/A	N/A	4	
2206	19	NA	I6	12.5	Liters	439	horsepower	2100	154.8	lb/hr	1482	lb-ft	1400	132.2	lb/hr	N/A	N/A	N/A	1	
2206	20	NA	I6	12.5	Liters	473	horsepower	2100	168.8	lb/hr	1600	lb-ft	1400	145.3	lb/hr	N/A	N/A	N/A	1	
2206	21	NA	I6	12.5	Liters	519	horsepower	2100	185.5	lb/hr	1752	lb-ft	1400	159.2	lb/hr	N/A	N/A	N/A	1	
C13	22	NA	I6	12.5	Liters	503	horsepower	1500	173.9	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	1	
C13	23	NA	I6	12.5	Liters	567	horsepower	1800	201	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	1	
2206	24	NA	I6	12.5	Liters	384	horsepower	2100	136.1	lb/hr	1297	lb-ft	1400	115.7	lb/hr	N/A	N/A	N/A	1	
2206	25	NA	I6	12.5	Liters	414	horsepower	2100	146.5	lb/hr	1398	lb-ft	1400	126	lb/hr	N/A	N/A	N/A	1	
2206	26	NA	I6	12.5	Liters	439	horsepower	2100	154.9	lb/hr	1482	lb-ft	1400	132.3	lb/hr	N/A	N/A	N/A	1	
C13	27	NA	I6	12.5	Liters	439	horsepower	2100	154.8	lb/hr	1482	lb-ft	1400	132.2	lb/hr	N/A	N/A	N/A	1	
C13	28	NA	I6	12.5	Liters	473	horsepower	2100	168.8	lb/hr	1600	lb-ft	1400	145.3	lb/hr	N/A	N/A	N/A	1	
C13	29	NA	I6	12.5	Liters	519	horsepower	2100	185.5	lb/hr	1752	lb-ft	1400	159.2	lb/hr	N/A	N/A	N/A	1	
C13	30	NA	I6	12.5	Liters	355	horsepower	2050	127.2	lb/hr	1564	lb-ft	1200	121.9	lb/hr	N/A	N/A	N/A	1	
C13	31	NA	I6	12.5	Liters	429	horsepower	2100	162.2	lb/hr	1612	lb-ft	1200	126.3	lb/hr	N/A	N/A	N/A	1	
C13	32	NA	I6	12.5	Liters	425	horsepower	1800	148.4	lb/hr	1609	lb-ft	1200	126.2	lb/hr	N/A	N/A	N/A	1	
C13	32A	NA	I6	12.5	Liters	425	horsepower	1800	148.4	lb/hr	1609	lb-ft	1200	126.2	lb/hr	N/A	N/A	N/A	1	
2206	33	NA	I6	12.5	Liters	503	horsepower	1500	173.9	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	1	
2206	34	NA	I6	12.5	Liters	567	horsepower	1800	201	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	1	