

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	RCEXL12.0AAA	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Electronic Direct Injection (DDI), Electronic Control Module (ECM), Turbocharger (TC), Charged Air Cooler (CAC), Selective Catalytic Reduction – Urea (SCR-U), Ammonia Oxidation Catalyst (AMOX), Periodic Trap Oxidizer (PTOX), Diesel Oxidation Catalyst (DOC)	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	*	*	*	*	*	*	*
	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: 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 July 2023.



Robin U. Lang, Chief
 Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RCEXL12.0AAA EO Number: U-R-002-0873 Date Applicable: 07/20/2023

Model	Code	Trim	Config	Displacement	Peak Power			Peak Torque			ECS Num	GHG	Notes
					Power	Speed	Fueling	Torque	Speed	Fueling			
-	-	-	-	L	hp	rpm	mm3/stroke	lb-ft	rpm	mm3/stroke	-	-	-
X12	LX1		I6	12	460	2100	229	1752	1400	324	1	N/A	
X12	LX2		I6	12	460	2100	235	1696	1400	311	1	N/A	
X12	LX3		I6	12	430	2100	215	1696	1400	298	1	N/A	
X12	LX4		I6	12	400	2100	201	1600	1400	284	1	N/A	
X12	LX5		I6	12	400	2100	201	1500	1400	271	1	N/A	
X12	LX6		I6	12	400	2100	201	1400	1400	253	1	N/A	
X12	LX7		I6	12	375	2100	189	1450	1400	262	1	N/A	
X12	LX8		I6	12	350	2100	178	1350	1400	242	1	N/A	
X12	LX9		I6	12	335	2100	171	1250	1400	222	1	N/A	
X12	LX10		I6	12	355	2000	181	1373	1400	247	1	N/A	
X12	LX11		I6	12	513	1900	275	1696	1400	311	1	N/A	
X12	LX12		I6	12	435	1900	225	1600	1400	284	1	N/A	
X12	LX13		I6	12	375	1900	194	1359	1400	242	1	N/A	
X12	LX14		I6	12	500	1800	281	1600	1400	292	1	N/A	
X12	LX15		I6	12	475	1800	252	1600	1400	284	1	N/A	
X12	LX16		I6	12	450	1800	239	1600	1400	284	1	N/A	
X12	LX17		I6	12	430	1800	228	1500	1400	271	1	N/A	
X12	LX18		I6	12	400	1800	212	1450	1400	262	1	N/A	
X12	LX19		I6	12	375	1800	198	1350	1400	242	1	N/A	
X12	LX20		I6	12	350	1800	187	1275	1400	228	1	N/A	
X12	LX21		I6	12	335	2100	195	1120	1400	171	1	N/A	
X12	LX22		I6	12	440	2100	240	1471	1400	223	1	N/A	