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	RYDXL02.2NDA	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems						
[1]: Electronic Control Module (ECM), Exhaust Gas Recirculation (EGR), Direct Fuel Injection (DFI), Periodic Trap Oxidizer (PTOX), Oxidation Catalyst (OC)	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 hydrocarbon plus oxides of nitrogen (NMHC+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 kilowatthour (g/kW-hr) and percent opacity (%opacity), respectively, except as noted, or designated as not applicable (*).

	Crit	Smoke Opacity					
Applicable Standard	NMHC+NOx	СО	PM	ACL	LUG	PEAK	
	STD	4.7	5.5	0.03	*	*	*
Tier 4 Final 19 ≤ kW < 37	FEL	*	*	*	*	*	*
10 - 100 - 100	NTE	5.9	6.9	0.04	*	*	*

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 2Oth day of December 2023.

Robin U. Lang

Robin U. Lang, Chief *O* Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RYDXL02.2NDA EO Number: U-R-028-1122 Date Applicable: 12/13/2023

Model	Code	Trim	Config		Peak Power			Peak Torque g Torque		Fueling	ECS Num	GHG	Notes
				Displacement	Power	Speed	Fueling		Speed				
-	-	-	-	L	hp	rpm	mm3/stroke	lb-ft	rpm	mm3/stroke	-	-	-
INNDPC	N/A		14	2.19	48.8	3000	29.8	107.6	1950	34.9	1	N/A	
NNDAC	N/A		14	2.19	47.6	3000	29.0	103.5	1950	33.5	1	N/A	
NNKAC	N/A		14	2.19	46.0	2800	29.6	103.5	1820	33.3	1	N/A	
NNMAC	N/A		14	2.19	42.5	2600	29.0	103.5	1690	33.3	1	N/A	
NNNAC	N/A		14	2.19	40.9	2500	28.8	103.5	1625	33.3	1	N/A	
INNPAC	N/A		14	2.19	39.0	2400	28.3	102.6	1560	33.0	1	N/A	
INNSAC	N/A		14	2.19	35.8	2200	28.0	102.6	1430	33.0	1	N/A	
NNKCC	N/A		14	2.19	41.4	2800	26.5	93.3	1820	29.9	1	N/A	
NNDAC0T	N/A		14	2.19	47.6	3000	29.0	103.5	1950	33.5	1	N/A	
NNNAC0T	N/A		14	2.19	40.9	2500	28.8	103.5	1625	33.3	1	N/A	
INNPAC0T	N/A		14	2.19	39.0	2400	28.3	102.6	1560	33.0	1	N/A	
D88E-7	N/A		14	2.19	39.0	2400	28.3	102.6	1560	33.0	1	N/A	