None

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 Ope	ration		
2024	RYDXL01.3NSA	Diesel	Dedicated	Diesel	Variable and Con	onstant Speed		
			Emission Control	Systems		Special Features		

[1]: Indirect Fuel Injection (IFI)	[1]:	Indirect	Fuel	Injection	(IFI)
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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/kWh-hr) and percent opacity (%opacity), respectively, except as noted, or designated as not applicable (*).

			Criteria				Smoke Opacity		
Applicable Standard	Applicable Standard				ACL	LUG	PEAK		
	STD	7.5	6.6	0.40	20	15	50		
Tier 4 Final 8 ≤ kW < 19	FEL	*	*	*	*	*	*		
0 2 8 9 9 10	NTE	9.4	8.2	0.50	*	*	*		

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

8th

day of November 2023.

olin U. Land

Robin U. Lang, Chief Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RYDXL01.3NSA EO Number: U-R-028-1113 Date Applicable: 10/30/2023

Model		Trim	Config Disp		Peak Power			Peak Torque		Fueling	ECS Num	GHG	Notes
	Code			Displacement	Power	Speed	Fueling	Torque	Speed				
-	-	-	-	L	hp	rpm	mm3/stroke	lb-ft	rpm	mm3/stroke	-	-	-
4WNNPA	N/A		13	1.267	21.2	2500	23.3	51.5	1700	24.0	1	N/A	
4WNDXA	N/A		13	1.267	24.7	3000	22.2	48.7	2100	23.0	1	N/A	
4WNKAA	N/A		13	1.267	22.8	2800	21.5	48.1	1900	23.1	1	N/A	
4WNMAA	N/A		13	1.267	21.2	2600	22.2	48.1	1900	23.5	1	N/A	
4WNNAA	N/A		13	1.267	20.4	2500	22.4	48.1	1900	23.4	1	N/A	
WNPAA	N/A		13	1.267	19.6	2400	21.6	48.1	1800	23.2	1	N/A	
IWNSAA	N/A		13	1.267	18.0	2200	21.0	48.1	1600	23.4	1	N/A	