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	RKLXL04.5AAI	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Selective Catalyst Reduction-Urea (SCR-U), Ammonia Oxidation Catalyst (AMOX), Oxidation Catalytic Converter (OC), Electronic Direct Injection (DFI), Turbocharger (TC), Exhaust Gas Recirculation (EGR), Electronic Control Module (ECM), Charge Air Cooler (CAC)	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 (*).

		Crit	eria	Smoke Opacity				
Applicable Standard	NMHC	NOx	СО	PM	ACL	LUG	PEAK	
	STD	0.19	0.40	5.0	0.02	*	*	*
Tier 4 Final 75 ≤ kW < 130	FEL	*	*	*	*	*	*	*
70 = 100	NTE	0.28	0.60	6.2	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 26th day of September 2023.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RKLXL04.5AAI EO Number: U-R-005-0544 Date Applicable: 09/08/2023

					Peak Power			Peak Torque						
Model	Code	Trim	Config	Displacement	Power	Speed	Fueling	Torque	Speed	Fueling	ECS Num	GHG		Notes
-	=	-	-	L	hp	rpm	lb/hr	lb-ft	rpm	lb/hr	-	-		-
SAA4D107E-3	OB1	N/A	14	3.3	173	2500	65	520	1500	52	1	N/A	N/A	
SAA4D107E-3	OB2	N/A	14	3.3	121	2100	42	368	1500	35	1	N/A	N/A	
SAA4D107E-3	OB3	N/A	14	3.3	148	2000	50	472	1500	45	1	N/A	N/A	
SAA4D107E-3	OB4	N/A	14	3.3	128	2000	44	442	1350	39	1	N/A	N/A	
SAA4D107E-3	OB5	N/A	14	3.3	133	2200	47	431	1450	41	1	N/A	N/A	
SAA4D107E-3	OB6	N/A	14	3.3	148	2200	51	472	1500	46	1	N/A	N/A	