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	RKBXL02.4EKD	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Direct Fuel Injection (DFI), Turbocharger (TC), Exhaust Gas Recirculation (EGR), Electronic Control Module (ECM), 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 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 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 37 ≤ kW < 56	STD	4.7	5.0	0.03	*	*	*
	FEL	*	*	*	*	*	*
	NTE	5.9	6.2	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: That the manufacturer has elected to combine engines from the 19 ≤ kW < 56 power categories into a single engine family. The listed engine models comply with the more stringent set of standards of the 37 ≤ kW < 56 power category in accordance with Section 1039.230(e) of 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 20th day of December 2023.

Robin U. Lang

Robin U. Lang, Chief
Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RKBXL02.4EKD EO Number: U-R-025-1148 Date Applicable: 12/18/2023

					Peak Power			Peak Torque					
Model	Code	Trim	Config	Displacement	Power	Speed	Fueling	Torque	Speed	Fueling	ECS Num	GHG	Notes
-	-	-	-	L	kW	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
C2.4-CR-T-EF	C2.4-CR-T-EF08	N/A	I4	2.435	42.6	2400	42.2	195.6	1500	46.4	1	N/A	
C2.4-CR-T-EF	C2.4-CR-T-EF09	N/A	I4	2.435	39.0	2200	41.0	195.6	1500	46.4	1	N/A	
C2.4-CR-T-EF	C2.4-CR-T-EF59	N/A	I4	2.435	39.0	2200	41.0	195.6	1500	46.4	1	N/A	
2 D1803-CR-T-EF	D1803-CR-T-EF01	N/A	I3	1.826	36.5	2700	43.1	148.3	1600	46.1	2	N/A	
V2403-CR-T-EF	V2403-CR-T-EF01	N/A	I4	2.435	50.2	2700	46.3	206.4	1600	48.7	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF02	N/A	I4	2.435	47.9	2700	43.2	195.6	1600	46.0	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF04	N/A	I4	2.435	45.1	2600	41.5	195.6	1600	46.2	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF05	N/A	I4	2.435	41.1	2600	39.9	182.6	1600	44.0	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF06	N/A	I4	2.435	37.4	2600	36.5	164.2	1600	39.2	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF08	N/A	I4	2.435	42.6	2400	42.2	195.6	1500	46.4	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF09	N/A	I4	2.435	39.0	2200	41.0	195.6	1500	46.4	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF12	N/A	I4	2.435	37.6	2700	35.3	164.2	1600	39.0	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF13	N/A	I4	2.435	38.9	2700	37.1	165.2	1600	40.4	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF14	N/A	I4	2.435	45.1	2700	41.1	190.1	1600	45.1	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF15	N/A	I4	2.435	43.2	2600	40.7	195.6	1600	46.2	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF16	N/A	I4	2.435	46.3	2700	42.5	195.6	1600	46.2	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF17	N/A	I4	2.435	49.3	2700	44.0	195.6	1600	46.0	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF18	N/A	I4	2.435	46.6	2700	42.3	195.6	1600	46.2	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF19	N/A	I4	2.435	41.9	2700	38.6	178.3	1600	42.3	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF20	N/A	I4	2.435	39.5	2700	37.2	167.8	1600	40.5	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF51	N/A	I4	2.435	50.2	2700	46.3	206.4	1600	48.7	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF52	N/A	I4	2.435	47.9	2700	43.2	195.6	1600	46.0	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF54	N/A	I4	2.435	45.1	2600	41.5	195.6	1600	46.2	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF55	N/A	I4	2.435	41.1	2600	39.9	182.6	1600	44.0	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF56	N/A	I4	2.435	37.4	2600	36.5	164.2	1600	39.2	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF58	N/A	I4	2.435	42.6	2400	42.2	195.6	1500	46.4	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF59	N/A	I4	2.435	39.0	2200	41.0	195.6	1500	46.4	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF62	N/A	I4	2.435	37.6	2700	35.3	164.2	1600	39.0	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF63	N/A	I4	2.435	38.9	2700	37.1	165.2	1600	40.4	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF64	N/A	I4	2.435	45.1	2700	41.1	190.1	1600	45.1	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF65	N/A	I4	2.435	43.2	2600	40.7	195.6	1600	46.2	1	N/A	
V2403-CR-T-EF	V2403-CR-T-EF66	N/A	I4	2.435	46.3	2700	42.5	195.6	1600	46.2	1	N/A	