

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	RPKXL04.4MT1	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Electronic Direct Injection (EDI), Charged Air Cooler (CAC), Exhaust Gas Recirculation (EGR), Electronic Control Module (ECM), Turbocharger (TC), Diesel Oxidation Catalyst (DOC), Selective Catalytic Reduction – Urea (SCR-U), Ammonia Oxidation Catalyst (AMOX)	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 75 ≤ kW < 130	STD	0.19	0.40	5.0	0.02	*	*	*
	FEL	*	*	*	*	*	*	*
	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: That the manufacturer has elected to combine engines from the 56 ≤ kW < 130 power categories into a single engine family. The listed engine models comply with the more stringent set of standards of the 75 ≤ kW < 130 power category in accordance with Section 1039.230(e) of the applicable California test procedures.

BE IT FURTHER RESOLVED: That the manufacturer has elected to include engine models in this engine family which are identified for "emergency vehicle use only". These "emergency vehicle use only" engines are exempt from requirements imposed pursuant to California law and the regulations adopted pursuant thereto for motor vehicle pollution control devices per California Vehicle Code Section 27156.2. The manufacturer must clearly label these engines for "emergency vehicle use only" on the engines' emission control label.

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 September 2023.



Robin U. Lang, Chief
Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RPKXL04.4MT1 EO Number: U-R-022-0376 Date Applicable: 09/08/2023

Model	Code	Trim	Config	Displacement	Peak Power			Peak Torque			ECS Num	GHG	Notes
					Power	Speed	Fueling	Torque	Speed	Fueling			
-	-	-	-	L	hp	rpm	lb/hr	lb-ft	rpm	lb/hr	-	-	-
4074/2200	Cert Test 1	N/A	I4	4.4	148	2200	55	413	1400	39	1	N/A	N/A
4074/2200	1	N/A	I4	4.4	148	2200	55	413	1400	39	1	N/A	N/A
4138/2200	2	N/A	I4	4.4	142	2200	53	413	1400	38	1	N/A	N/A
4136/2200	3	N/A	I4	4.4	137	2200	51	413	1400	39	1	N/A	N/A
4134/2200	4	N/A	I4	4.4	131	2200	50	391	1400	37	1	N/A	N/A
4132/2200	5	N/A	I4	4.4	124	2200	45	391	1400	37	1	N/A	N/A
4092/2200	6	N/A	I4	4.4	122	2200	45	369	1400	35	1	N/A	N/A
4328/2000	7	N/A	I4	4.4	122	2000	44	369	1400	35	1	N/A	N/A
4130/2200	8	N/A	I4	4.4	115	2200	43	369	1400	35	1	N/A	N/A
4126/2200	9	N/A	I4	4.4	110	2200	42	332	1400	31	1	N/A	N/A
4128/2200	10	N/A	I4	4.4	100	2200	39	332	1400	31	1	N/A	N/A
4248/2000	11	N/A	I4	4.4	100	2000	38	332	1400	31	1	N/A	N/A
4072/2200	12	N/A	I4	4.4	94	2200	38	332	1400	31	1	N/A	N/A
3996/2200	13	N/A	I4	4.4	88	2200	36	332	1400	31	1	N/A	N/A
4132/2200	14 AK444 (Emergency)	N/A	I4	4.4	124	2200	45	391	1400	37	1	N/A	N/A
4126/2200	15 AK444 (Emergency)	N/A	I4	4.4	110	2200	42	332	1400	31	1	N/A	N/A
4128/2200	16 AK444 (Emergency)	N/A	I4	4.4	100	2200	39	332	1400	31	1	N/A	N/A
3996/2200	17 AK444 (Emergency)	N/A	I4	4.4	88	2200	36	332	1400	31	1	N/A	N/A