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	RDZXL07.8046	Diesel	Dedicated	Diesel	Variable and Constant Speed				

Emission Control Systems						
[1]: Direct Diesel Injection (DDI), Turbocharger (TC), Charge Air Cooler (CAC), Electronic Control Module (ECM), Exhaust Gas Recirculation (EGR), Diesel Oxidation Catalyst (DOC), Continuous Trap Oxidizer (CTOX), Selective Catalytic Reduction-Urea (SCR-U), Ammonia Oxidation Catalyst (AMOX)	None					

The certified engine models are attached.

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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	3.5	0.02	*	*	*
Tier 4 Final 130 ≤ kW ≤ 560	FEL	*	*	*	*	*	*	*
100 = KVV = 000	NTE	0.28	0.60	4.4	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 _____ 24th ____ day of August 2023.

Robin **∜**. Lang, Chief

Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RDZXL07.8046 EO Number: U-R-013-0733 Date Applicable: 8/7/2023

Model	Code	Trim		Displacement	Peak Power	Speed Fueling		Peak Torque Torque		Fueling	ECS Num	GHG	Notes
			Config		Power		Fueling		Speed				
-	-	-	-	Liters	horsepower	rpm	lb/hr	N-m	rpm	lb/hr	-	-	-
18 J	CFVI160		16	7.755	214.5	1800	74.3	1110	1350	70.6	1	N/A	
8J	CFVI210		16	7.755	281.5	1800	95.9	1360	1350	86.4	1	N/A	
8J	CFVI180		16	7.755	241.3	1800	81.5	1238	1350	77.8	1	N/A	
BJ	CFVI180A		16	7.755	241.3	1800	81.5	1238	1350	77.8	1	N/A	
3J	CFVI175		16	7.755	234.6	1800	79.7	1230	1500	86	1	N/A	
8J	CFVI175A		16	7.755	234.6	1800	79.7	1230	1500	86	1	N/A	
3J	CFVI200		16	7.755	268.1	2000	93.3	1273	1500	90	1	N/A	
BJ	CFVI187		16	7.755	250.7	2100	88.8	1096	1500	77.5	1	N/A	
BJ	CFVI209		16	7.755	280.2	2100	97.9	1236	1500	87	1	N/A	
3J	CFVI176		16	7.755	236	2100	82.5	1250	1450	86	1	N/A	
8J	CFVI180B		16	7.755	241.3	2100	85.3	1330	1450	90.4	1	N/A	
8J	CFVI165		16	7.755	221.2	2100	76.9	1076	1500	83.5	1	N/A	
80F	CFVI176A		16	7.755	236	2100	82.5	1250	1450	86	1	N/A	
80F	CFVI180S		16	7.755	241.3	2100	85.3	1330	1450	90.4	1	N/A	