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	RDZXL02.2115	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Direct Diesel Injection (DDI), Turbocharger (TC), Electronic Control Module (ECM), Exhaust Gas Recirculation (EGR), Diesel Oxidation Catalyst (DOC), Continuous Trap Oxidizer (CTOX)	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: 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 16th day of August 2023.

Robin U. Lang

Robin U. Lang, Chief
Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RDZXL02.2115 EO Number: U-R-013-0712 Date Applicable: 07/24/2023

					Peak Power			Peak Torque					
Model	Code	Trim	Config	Displacement	Power	Speed	Fueling	Torque	Speed	Fueling	ECS Num	GHG	Notes
-	-	-	-	Liters	horsepower	rpm	lb/hr	lb-ft	rpm	lb/hr	-	-	-
TD2.2L3	C5EI44E		L3	2.194	59.7	2200	23.8	147.5	1600	17.3	1	N/A	
TD2.2L3	C5EI36D		L3	2.194	48.8	2300	18.5	132.8	1600	15.4	1	N/A	
TD2.2L3	C5EI44A		L3	2.194	59.7	2600	24.6	147.5	1600	17.3	1	N/A	
TD2.2L3	C5EI30A		L3	2.194	40.2	2600	18.1	110.6	1600	12.5	1	N/A	
TD2.2L3	C5EI36A		L3	2.194	48.8	2600	20.7	132.8	1600	15.4	1	N/A	
TD2.2L3	C5EI30EL		L3	2.194	40.2	2200	16.6	96.6	1600	10.9	1	N/A	
TD2.2L3	C5EI44AG		L3	2.194	59.7	2600	24.6	147.5	1600	17.3	1	N/A	
TD2.2L3	C5EI26E		L3	2.194	59.7	2200	14.6	95.9	1600	10.9	1	N/A	
TD2.2L3	C5EI26D		L3	2.194	59.7	2300	14.3	95.9	1600	10.9	1	N/A	
TD2.2L3	C5EI30E		L3	2.194	40.2	2200	16.6	110.6	1600	12.5	1	N/A	
TD2.2L3	C5EI36E		L3	2.194	48.8	2200	19.4	132.8	1600	15.4	1	N/A	
TD2.2L3	C5EI26A		L3	2.194	59.7	2600	16.4	95.9	1600	10.9	1	N/A	
TD2.2L3	C5EI44D		L3	2.194	59.7	2300	24.1	147.5	1600	17.3	1	N/A	
TD2.2L3	C5EI30D		L3	2.194	40.2	2300	16.2	110.6	1600	12.5	1	N/A	