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	RDCLL02.4HTV	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Electronic Direct Injection (DDI), Exhaust Gas Recirculation (EGR), Electronic Control Module (ECM), Turbocharger (TC), Diesel Oxidation Catalyst (DOC), Periodic Trap Oxidizer (PTOX), 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 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 kilowatthour (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	4.7	5.0	0.03	*	*	*
Tier 4 Final 37 ≤ kW < 56	FEL	*	*	*	*	*	*
07 2 800 4 00	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  $19 \le kW < 56$  power categories into a single engine family. The listed engine models comply with the more stringent set of standards of the  $37 \le kW < 56$  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 2Oth day of October 2023.

in U.J

Robin U. Lang, Chief *O* Emissions Certification and Compliance Division

## ATTACHMENT: ENGINE MODELS

Family: RDCLL02.4HTV EO Number: U-R-044-0195 Date Applicable: 10/06/2023

Tanniy. NDCLLC	D2.4IIIV LO Nulliber	. 0-11-044-0195	Date Applica	DIE. 10/00/202	5								
Model	Code	Trim	Config	Displacement	Peak Power			Peak Torque		Fueling	ECS Num	GHG	Notes
					Power	Speed	Fueling	Torque	Speed				
-	-	-	-	L	kW	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
4HT4	5520-2654	N/A	14	2.435	54.5	2600	48.3	240.5	1700	54.9	1	N/A	
4HT4	5021-2654	N/A	14	2.435	49.5	2600	43.7	220	1700	49.8	1	N/A	
1HT4	4527-2654	N/A	14	2.435	45	2600	40.3	210	1700	47.4	1	N/A	
4HT4	5020-2454	N/A	14	2.435	49.5	2400	45.4	237	1700	54	1	N/A	
4HT4	4723-2454	N/A	14	2.435	47	2400	42	230	1700	51.1	1	N/A	
4HTG4	4000-1854	N/A	14	2.435	40	1800	47.9	216	1800	47.9	1	N/A	
4HTG4	3300-1554	N/A	14	2.435	33	1500	47.7	215	1500	47.7	1	N/A	