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	RDICL05.8LEB	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Exhaust Gas Recirculation (EGR), Diesel Oxidation Catalyst (DOC), Selective Catalyst Reduction-Urea (SCR-U), Electronic Direct Injection (DFI), Turbocharger (TC), Charge Air Cooler (CAC), Electronic Control Module (ECM), DEF Quality Sensor (DQS)	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/kW-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: That the manufacturer has elected to combine engines from the $75 \le kW \le 560$ power categories into a single engine family. The listed engine models comply with the more stringent set of standards of the $130 \le kW \le 560$ 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 14th day of December 2023.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RDICL05.8LEB EO Number: U-R-019-0220 Date Applicable: 02/21/2024

						Peak Power			Peak Torque					
-LELIGO DLOGP N/A 16 5.89 141 2000 107.8 902 1400 139 1 N/A	Model	Code	Trim	Config	Displacement	Power	Speed	Fueling	Torque	Speed	Fueling	ECS Num	GHG	Notes
-LEC23 DLOGP N/A 16 5.89 130 1800 104.7 804 1400 119.7 1 N/A	-	-	-	-	L	kW	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	=
-LELO3 DLO6P N/A 16 5.89 127.9 2100 96.3 804 1400 124.8 1 N/A	DL06-LEL06	DL06P	N/A	16	5.89	141	2000	107.8	902	1400	139	1	N/A	N/A
	DL06-LEE23	DL06P	N/A	16	5.89	130	1800	104.7	804	1400	119.7	1	N/A	N/A
-LELOO DLOGP N/A IG 5.89 127.9 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LELTY DLOGP N/A IG 5.89 130 1800 104.7 804 1400 119.7 1 N/A	DL06-LEL03	DL06P	N/A	16	5.89	127.9	2100	96.3	804	1400	124.8	1	N/A	N/A
-LEET DLOGP N/A 16 5.89 130 1800 104.7 804 1400 119.7 1 N/A	DL06-LEL08	DL06P	N/A	16	5.89	128	2100	96.3	804	1400	124.8	1	N/A	N/A
-LEEDI DLOGP N/A 16 5.89 113.2 2000 88.5 647 1400 98.2 1 N/A N/A N/A	DL06-LEL00	DL06P	N/A	16	5.89	127.9	2100	96.3	804	1400	124.8	1	N/A	N/A
-LECOS DLOGP N/A 16 5.89 141.2 1900 111.3 804 1400 124.8 1 N/A	DL06-LEE17	DL06P	N/A	16	5.89	130	1800	104.7	804	1400	119.7	1	N/A	N/A
-LEEO3 DLOGP N/A IG 5.89 129.4 1900 101 755 1400 115.7 1 N/A	DL06-LEE01	DL06P	N/A	16	5.89	113.2	2000	88.5	647	1400	98.2	1	N/A	N/A
-LEEQ4 DLOGP N/A 16 5.89 141.2 1900 111.3 804 1400 124.8 1 N/A N/A N/ALEEQ4 DLOGP N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A	DL06-LEE05	DL06P	N/A	16	5.89	141.2	1900	111.3	804	1400	124.8	1	N/A	N/A
LeE24 DLOGP N/A I6 S.89 141 1900 111.3 804 1400 124.8 1 N/A N/	DL06-LEE03	DL06P	N/A	16	5.89	129.4	1900	101	755	1400	115.7	1	N/A	N/A
-LEEDO DLOGP N/A 16 5.89 124 1800 103.1 755 1400 115.7 1 N/A N/A N/A	DL06-LEE04	DL06P	N/A	16	5.89	141.2	1900	111.3	804	1400	124.8	1	N/A	N/A
-LEEZO DLOGP N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A	LO6-LEE24	DL06P	N/A	16	5.89	141	1900	111.3	804	1400	124.8	1	N/A	N/A
-LELDS DLOGP N/A 16 5.89 119 2100 89.7 736 1400 111 1 N/A N/A N/A -LEE02 DLOGP N/A 16 5.89 141.2 1900 111.3 804 1400 124.8 1 N/A N/A -LEE07 DLOGP N/A 16 5.89 102.2 2000 79.7 588 1400 89.4 1 N/A N/A -LEE19 DLOGP N/A 16 5.89 130 1900 101 755 1400 115.7 1 N/A N/A -LEE19 DLOGP N/A 16 5.89 141 1900 111.3 804 1400 89.4 1 N/A N/A -LEE18 DLOGP N/A 16 5.89 141 1900 111.3 804 1400 89.4 1 N/A N/A -LEE18 DLOGP N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A -LEE10 DLOGP N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A -LEE10 DLOGP N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A -LEE10 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A -LEE10 DLOGP N/A 16 5.89 119 2100 89.7 736 1400 111 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 106.2 785 1400 120.4 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 119 2100 89.7 736 1400 111 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 96.3 804 1400 124.8 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 96.3 804 1400 124.8 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 96.3 804 1400 124.8 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 96.3 804 1400 124.8 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 96.3 804 1400 124.8 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 96.3 804 1400 124.8 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 96.3 804 1400 124.8 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 96.3 804 1400 124.8 1 N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LEE00 DLOGP N/A 16 5.89 128.7 2100 96.3 804 1400 124.8 1 N/A N/A N/A	LO6-LEE00	DL06P	N/A	16	5.89	124	1800	103.1	755	1400	115.7	1	N/A	N/A
-LEEDZ DLOGP N/A 16 5.89 141.2 1900 111.3 804 1400 124.8 1 N/A	LO6-LEE20	DL06P	N/A	16	5.89	141	1900	111.3	804	1400	124.8	1	N/A	N/A
-LEEO7 DLOGP N/A 16 5.89 102.2 2000 79.7 588 1400 89.4 1 N/A N/A N/A -LEE19 DLOGP N/A 16 5.89 130 1900 101 755 1400 115.7 1 N/A N/A N/A -LEE122 DLOGP N/A 16 5.89 102 2000 79.7 588 1400 89.4 1 N/A N/A N/A -LEE188 DLOGP N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A -LEE14 DLOGP N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A -LEE104 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A -LEE002 DLOGP N/A 16 5.89 119 2100 89.7 736 1400 111 1 N/A N/A -LEF00 DLOGP N/A 16 5.89 139.7 2100 106.2 785 1400 110 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2200 97.1 726 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 97.1 726 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 97.1 726 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 97.1 726 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 89.7 736 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 97.1 726 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 97.1 726 1400 111 1 N/A N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LEF02 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LEF02 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LEF02 DLOGP N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A N/A N/A -LEF02 DLOGP N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A N/A N/A	LO6-LELO5	DL06P	N/A	16	5.89	119	2100	89.7	736	1400	111	1	N/A	N/A
-LEE19 DLOGP N/A 16 5.89 130 1900 101 755 1400 115.7 1 N/A N/A N/A -LEE22 DLOGP N/A 16 5.89 102 2000 79.7 588 1400 89.4 1 N/A N/A -LEE18 DLOGP N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A -LEE21 DLOGP N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A -LEE104 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A -LEL02 DLOGP N/A 16 5.89 119 2100 89.7 736 1400 111 1 N/A N/A -LEF00 DLOGP N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 97.1 726 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 97.1 726 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128.7 2100 89.7 736 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128.7 2100 89.7 736 1400 111 1 N/A N/A -LEF01 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A -LEF02 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A -LEF02 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LEF02 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LEF02 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LEF02 DLOGP N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A N/A -LEF02 DLOGP N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A N/A N/A N/A	DL06-LEE02	DL06P	N/A	16	5.89	141.2	1900	111.3	804	1400	124.8	1	N/A	N/A
-LEE22 DL06P N/A 16 5.89 102 2000 79.7 588 1400 89.4 1 N/A N/A N/A -LEE18 DL06P N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A N/A -LEE21 DL06P N/A 16 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A -LEL04 DL06P N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A -LEL02 DL06P N/A 16 5.89 119 2100 89.7 736 1400 111 1 N/A N/A -LEF00 DL06P N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A -LEF01 DL06P N/A 16 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A -LEF01 DL06P N/A 16 5.89 128.7 2100 89.7 736 1400 111 1 N/A N/A -LEF01 DL06P N/A 16 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A -LEF01 DL06P N/A 16 5.89 128 2100 89.7 736 1400 111 1 N/A N/A -LEF02 DL06P N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A -LEF02 DL06P N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LEF02 DL06P N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A N/A -LEF02 DL06P N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A N/A N/A N/A	LO6-LEE07	DL06P	N/A	16	5.89	102.2	2000	79.7	588	1400	89.4	1	N/A	N/A
-LEE18 DLO6P N/A I6 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A N/A -LEE21 DLO6P N/A I6 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A N/A -LEL04 DLO6P N/A I6 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LEL02 DLO6P N/A I6 5.89 119 2100 89.7 736 1400 111 1 N/A N/A N/A -LEF00 DLO6P N/A I6 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A N/A -LEF01 DLO6P N/A I6 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A N/A -LEF01 DLO6P N/A I6 5.89 119 2100 89.7 736 1400 111 1 N/A N/A N/A -LEL07 DLO6P N/A I6 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A N/A -LEL08 DLO6P N/A I6 5.89 128 2100 96.3 804 1400 111 1 N/A N/A N/A -LEF02 DLO6P N/A I6 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LEF02 DLO6P N/A I6 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A N/A N/A	LO6-LEE19	DL06P	N/A	16	5.89	130	1900	101	755	1400	115.7	1	N/A	N/A
-LEE21 DLO6P N/A I6 5.89 141 1900 111.3 804 1400 124.8 1 N/A N/A -LEL04 DLO6P N/A I6 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A -LEL02 DLO6P N/A I6 5.89 119 2100 89.7 736 1400 111 1 N/A N/A -LEF00 DLO6P N/A I6 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A -LEF01 DLO6P N/A I6 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A -LEF01 DLO6P N/A I6 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A -LEL07 DLO6P N/A I6 5.89 119 2100 89.7 736 1400 111 1 N/A N/A -LEL08 DLO6P N/A I6 5.89 128 2100 96.3 804 1400 111 1 N/A N/A -LEL08 DLO6P N/A I6 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A -LEF02 DLO6P N/A I6 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A New Model Added	LO6-LEE22	DL06P	N/A	16	5.89	102	2000	79.7	588	1400	89.4	1	N/A	N/A
-LELO4 DLO6P N/A I6 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A N/A N-LELO2 DLO6P N/A I6 5.89 119 2100 89.7 736 1400 111 1 N/A N/A N/A N/A N-LEFO0 DLO6P N/A I6 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A N/A N/A N-LEFO1 DLO6P N/A I6 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A N/A N/A N-LELO7 DLO6P N/A I6 5.89 119 2100 89.7 736 1400 111 1 N/A N/A N/A N-LELO7 DLO6P N/A I6 5.89 119 2100 89.7 736 1400 111 1 N/A N/A N/A N-LELO7 DLO6P N/A I6 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N-LELO8 DLO6P N/A I6 5.89 128 2100 96.3 804 1400 124.8 1 N/A N-A N-W Model Added N-LEFO2 DLO6P N/A I6 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N-W Model Added	DL06-LEE18	DL06P	N/A	16	5.89	141	1900	111.3	804	1400	124.8	1	N/A	N/A
-LELO2 DLO6P N/A I6 5.89 119 2100 89.7 736 1400 111 1 N/A N/A -LEFO0 DLO6P N/A I6 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A -LEFO1 DLO6P N/A I6 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A N/A -LELO7 DLO6P N/A I6 5.89 119 2100 89.7 736 1400 111 1 N/A N/A N/A -LELO8 DLO6P N/A I6 5.89 128 2100 96.3 804 1400 124.8 1 N/A N/A N/A -LELO8 DLO6P N/A I6 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A New Model Added -LEFO2 DLO6P N/A I6 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A New Model Added	LO6-LEE21	DL06P	N/A	16	5.89	141	1900	111.3	804	1400	124.8	1	N/A	N/A
-LEF00 DL06P N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A N/A -LEF01 DL06P N/A 16 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A -LEL07 DL06P N/A 16 5.89 119 2100 89.7 736 1400 111 1 N/A N/A -LEL08 DL06P N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A New Model Added -LEF02 DL06P N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A New Model Added	DL06-LEL04	DL06P	N/A	16	5.89	128	2100	96.3	804	1400	124.8	1	N/A	N/A
-LEF01 DL06P N/A 16 5.89 128.7 2100 97.1 726 1400 111 1 N/A N/A N/A -LELO7 DL06P N/A 16 5.89 119 2100 89.7 736 1400 111 1 N/A N/A N/A -LELO8 DL06P N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A New Model Added -LEF02 DL06P N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A New Model Added	DL06-LEL02	DL06P	N/A	16	5.89	119	2100	89.7	736	1400	111	1	N/A	N/A
-LELO7 DL06P N/A 16 5.89 119 2100 89.7 736 1400 111 1 N/A N/A N/A -LELO8 DL06P N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A New Model Added -LEFO2 DL06P N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A New Model Added	DL06-LEF00	DL06P	N/A	16	5.89	139.7	2100	106.2	785	1400	120.4	1	N/A	N/A
-LEL08 DL06P N/A 16 5.89 128 2100 96.3 804 1400 124.8 1 N/A New Model Added -LEF02 DL06P N/A 16 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A New Model Added	L06-LEF01	DL06P	N/A	16	5.89	128.7	2100	97.1	726	1400	111	1	N/A	N/A
-LEF02 DL06P N/A I6 5.89 139.7 2100 106.2 785 1400 120.4 1 N/A New Model Added	L06-LEL07	DL06P	N/A	16	5.89	119	2100	89.7	736	1400	111	1	N/A	N/A
	LO6-LELO8	DL06P	N/A	16	5.89	128	2100	96.3	804	1400	124.8	1	N/A	New Model Added
-LEF03 DL06P N/A I6 5.89 128.7 2100 97.1 726 1400 111 1 N/A New Model Added	DL06-LEF02	DL06P	N/A	16	5.89	139.7	2100	106.2	785	1400	120.4	1	N/A	New Model Added
	DL06-LEF03	DL06P	N/A	16	5.89	128.7	2100	97.1	726	1400	111	1	N/A	New Model Added