

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	RDICL03.4LED	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: 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 (NO_x), 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 (*).

Applicable Standard		Criteria				Smoke Opacity		
		NMHC	NO _x	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: 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 15th day of December 2023.



Robin U. Lang, Chief
 Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RDICL03.4LED EO Number: U-R-019-0219 Date Applicable: 01/08/2023

Model	Code	Trim	Config	Displacement	Peak Power			Peak Torque			ECS Num	GHG	Notes
					Power	Speed	Fueling	Torque	Speed	Fueling			
-	-	-	-	L	kW	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
DM03-LED00	DM03PA	N/A	I4	3.4	91	2200	88.6	530	1400	113.7	1	N/A	N/A
DM03-LED01	DM03PA	N/A	I4	3.4	91	2200	88.6	530	1400	113.7	1	N/A	N/A
DM03-LEE00	DM03PA	N/A	I4	3.4	86	2000	91	460	1400	100.4	1	N/A	N/A
DM03-LEE01	DM03PA	N/A	I4	3.4	86	2000	91	460	1400	100.4	1	N/A	N/A
DM03-LEE02	DM03PA	N/A	I4	3.4	75	2000	80.7	430	1500	94.1	1	N/A	N/A
DM03-LEE03	DM03PA	N/A	I4	3.4	86	2000	91	460	1400	100.4	1	N/A	N/A
DM03-LEE06	DM03PA	N/A	I4	3.4	86	2000	91	460	1400	100.4	1	N/A	N/A
DM03-LEE07	DM03PA	N/A	I4	3.4	100.7	2000	104	530	1400	113.7	1	N/A	N/A
DM03-LEE08	DM03PA	N/A	I4	3.4	75	2000	80.7	430	1500	94.1	1	N/A	N/A
DM03-LEE09	DM03PA	N/A	I4	3.4	100.7	2000	104	530	1400	113.7	1	N/A	N/A
DM03-LEF02	DM03PA	N/A	I4	3.4	80.9	2300	74.8	460	1400	100.5	1	N/A	N/A
DM03-LEG00	DM03PP	78.1 kW	I4	3.4	78.1	1500	105.3	497.5	1500	105.3	1	N/A	N/A
DM03-LEG00	DM03PP	92.4 kW	I4	3.4	92.4	1800	104.8	490	1800	104.8	1	N/A	N/A
DM03-LEL02	DM03PA	N/A	I4	3.4	78.3	2600	67.4	407	1600	87.1	1	N/A	N/A
DM03-LEL03	DM03PA	N/A	I4	3.4	71.6	2600	62.4	372	1600	78.7	1	N/A	N/A
DM03-LEL05	DM03PA	N/A	I4	3.4	100.7	2600	85.3	550	1400	117.6	1	N/A	N/A
DM03-LEL10	DM03PA	N/A	I4	3.4	86	2400	77.9	460	1400	100.4	1	N/A	N/A
DM03-LEL13	DM03PA	N/A	I4	3.4	86	2400	77.9	460	1400	100.4	1	N/A	N/A
DM03-LEL20	DM03PA	N/A	I4	3.4	63.4	2600	57.1	325	1600	68.7	1	N/A	N/A
DM03-LEL33	DM03PA	N/A	I4	3.4	71.6	2200	69.5	437	1400	94.4	1	N/A	N/A
DM03-LEP00	DM03PA	N/A	I4	3.4	100.7	2600	85.3	500	1400	105	1	N/A	N/A
DM03-LEP01	DM03PA	N/A	I4	3.4	85.8	2600	73.3	445	1600	96.3	1	N/A	N/A
DM03-LEP02	DM03PA	N/A	I4	3.4	78.3	2600	67.4	407	1600	87.1	1	N/A	N/A
DM03-LEP03	DM03PA	N/A	I4	3.4	71.6	2600	62.4	372	1600	78.7	1	N/A	N/A
DM03-LEV01	DM03PA	N/A	I4	3.4	74.6	2400	69.3	430	1400	92.4	1	N/A	N/A
DM03-LEV02	DM03PA	N/A	I4	3.4	100.7	2400	89.6	500	1400	105	1	N/A	N/A
DN03-LEE01	DN03PA	N/A	I4	3.4	86	2000	91	460	1400	100.4	1	N/A	Engine Code Updated
DN03-LEE02	DN03PA	N/A	I4	3.4	75	2000	80.7	430	1500	94.1	1	N/A	Engine Code Updated
DN03-LEE06	DN03PA	N/A	I4	3.4	86	2000	91	460	1400	100.4	1	N/A	Engine Code Updated
DN03-LEE08	DN03PA	N/A	I4	3.4	75	2000	80.7	430	1500	94.1	1	N/A	Engine Code Updated
DN03-LEE11	DN03PA	N/A	I4	3.4	86	2000	91	460	1400	100.4	1	N/A	Engine Code Updated
DN03-LEF02	DN03PA	N/A	I4	3.4	80.9	2300	74.8	460	1400	100.5	1	N/A	Engine Code Updated