

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	RJCBL04.4S09	Diesel	Dedicated	Diesel	Variable and Constant Speed

Emission Control Systems	Special Features
[1]: Electronic Direct Injection (DDI), Electronic Control Module (ECM), Exhaust Gas Recirculation (EGR), Turbocharger (TC), Charge Air Cooler (CAC), Selective Catalytic Reduction-Urea (SCR-U), Ammonia Oxidation Catalyst (AMOX)	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 (*).

Applicable Standard		Criteria				Smoke Opacity		
		NMHC	NOx	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 24th day of January 2024.



Robin U. Lang, Chief
Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RJCBL04.4S09 EO Number: U-R-049-0071 Date Applicable: 1/17/24

Model	Code	Trim	Config	Displacement	Peak Power			Peak Torque			ECS Num	GHG	Notes
					Power	Speed	Fueling	Torque	Speed	Fueling			
-	-	-	-	L	hp	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
D1A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
D1A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
D1A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
B1A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
B1C	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
B1A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
B1C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
B1A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
B1C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
B2A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
B2A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
B2A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
E1A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
E1C	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
E1A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
E1C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
E1A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
E1C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
L1A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
L1C	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
L1A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
L1C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
L1A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
L1C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
C1A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
C1C	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
C1A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
C1C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
C1A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
C1C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
V1A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
V1C	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
V1A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
V1C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
V1A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
V1C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
W1A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
W1C	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
W1A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
W1C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
W1A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
W1C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A

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					Power	Speed	Fueling	Torque	Speed	Fueling			
-	-	-	-	L	hp	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	-
I1A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
I1C	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
I1A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
I1C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
I1A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
I1C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
I2A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
I2C	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
I2A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
I2C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
I2A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
I2C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
J1A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
J1C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
H1A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
H1C	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
H1A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
H1C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
H1A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
H1C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
E2A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
E2C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
E3A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
E3C	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A
I3A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
I3C	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
C2A	444 TA4-68	N/A	I4	4.399	91.6	2200	56	319	1450	78	1	N/A	N/A
C2A	444 TA4-81	N/A	I4	4.399	109	2200	66	380	1450	93	1	N/A	N/A
C2A	444 TA4-93	N/A	I4	4.399	125.1	2200	75	406	1500	98	1	N/A	N/A