

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below 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	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2013	DJCBL04.4TA9	4.4	Diesel	8,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation			Crane, Loader, Tractor, Dozer, Pump, Compressor, Forklift	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			NMHC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
56 ≤ kW < 130	Interim Tier 4 Alt NO _x	OPTIONAL STD	0.19	3.4	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.15	3.1	--	1.3	0.02	--	--	--

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005.

BE IT FURTHER RESOLVED: The listed engine family is conditionally certified pending submission of additional test data to verify compliance with useful-life emission standards. The manufacturer has until December 14, 2012 to provide test data to confirm or correct the certification emissions levels on this conditional certification. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified pursuant to Health and Safety Code Section 43153 and subject to civil penalties pursuant to Health and Safety Code Section 43154.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.



Executed at El Monte, California on this 9 day of August 2012.

Annette Hebert, Chief
Mobile Source Operations Division

SUPERSEDED

ATTACHMENT

U_R_049-0031

8/1/12

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
DJCBL04.4TA9	444 TA4i-93	D1	124.7 @ 2200	95	46.4	406 @ 1500	122	40.7	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-93	B1	124.7 @ 2200	95	46.4	406 @ 1500	122	40.7	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-93	B2	124.7 @ 2200	95	46.4	406 @ 1500	122	40.7	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-93	L1	124.7 @ 2200	95	46.4	406 @ 1500	122	40.7	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-93	C1	124.7 @ 2200	95	46.4	381 @ 1500	122	40.7	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-81	D1	108.6 @ 2200	83	40.6	381 @ 1500	116	38.7	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-81	B1	108.6 @ 2200	83	40.6	381 @ 1500	116	38.7	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-81	B2	108.6 @ 2200	83	40.6	381 @ 1500	116	38.7	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-81	L1	108.6 @ 2200	83	40.6	381 @ 1500	116	38.7	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-81	C1	108.6 @ 2200	83	40.6	381 @ 1500	116	38.7	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-68	D1	91.2 @ 2200	72	35.2	319 @ 1500	100	33.3	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-68	B1	91.2 @ 2200	72	35.2	319 @ 1500	100	33.3	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-68	B2	91.2 @ 2200	72	35.2	319 @ 1500	100	33.3	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-68	L1	91.2 @ 2200	72	35.2	319 @ 1500	100	33.3	DFI, ECM, EGR, TC, CAC
DJCBL04.4TA9	444 TA4i-68	C1	91.2 @ 2200	72	35.2	319 @ 1500	100	33.3	DFI, ECM, EGR, TC, CAC