

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 engine and emission control system 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)
2009	9VEXL08.7TR3	8.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Generator Set and Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), 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):

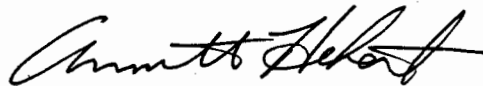
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.5	0.6	0.13	11	2	29

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 19 day of February 2009.



Annette Hebert, Chief
 Mobile Source Operations Division

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Engine Model Summary Template

U-R-05-071

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
9VEXL08.7TR3	F2CE9684F*E	F2CE9684	422 @ 2100	214	NA	1254@1500	263	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684G*E	F2CE9684	389 @ 2100	208	NA	1180@1500	252	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684A*E	F2CE9684	349 @ 2100	179	NA	1180@1500	247	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684L*E	F2CE9684	374 @ 2100	187	NA	1180@1500	247	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684H*E	F2CE9684	349 @ 2100	179	NA	1180@1500	247	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684B*E	F2CE9684	322 @ 2100	166	NA	1089@1500	223	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684C*E	F2CE9684	295 @ 2100	152	NA	999@1500	207	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684D*E	F2CE9684	282 @ 2100	147	NA	954@1500	196	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684E*E	F2CE9684	268 @ 2100	141	NA	909@1500	185	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9687A*E	F2CE9687	349 @ 2100	179	NA	1106@1400	231	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9687B*E	F2CE9687	308 @ 2100	160	NA	1033@1400	213	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9687C*E	F2CE9687	268 @ 2100	141	NA	959@1400	198	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9685A*E	F2CE9685	389 @ 1800	226	NA	1135@1800	226	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684M*E	F2CE9604	383 @ 2100	197	NA	1217@1800	237	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684N*E	F2CE9684	374 @ 2100	187	NA	1180@1500	247	NA	DDI, TC, CAC, ECM
9VEXL08.7TR3	F2CE9684P*E	F2CE9684	383 @ 2100	197	NA	1217@1800	237	NA	DDI, TC, CAC, ECM

