



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)
2010	AVEXL08.7TR3	8.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, and Engine Control Module			Generator Set and other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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 < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		FEL	N/A	N/A	3.7	N/A	0.15	N/A	N/A	N/A
		CERT	--	--	3.5	0.5	0.13	11	2	30

**BE IT FURTHER RESOLVED:** That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

**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 20 day of May 2010.

Annette Hebert, Chief  
Mobile Source Operations Division

## Engine Model Summary Template

U-15-017-0103  
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4/15/2010

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
AVEXL08.7TR3	F2CE9684	F2CE9684F*E	422 @ 2100	214	N/A	1254@1500	263	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684G*E	389 @ 2100	208	N/A	1180@1500	252	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684A*E	349 @ 2100	179	N/A	1180@1500	247	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684L*E	374 @ 2100	187	N/A	1180@ 1500	247	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684H*E	349 @ 2100	179	N/A	1180@1500	247	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684B*E	322 @ 2100	166	N/A	1089@1500	223	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684C*E	295 @ 2100	152	N/A	999@1500	207	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684D*E	282 @ 2100	147	N/A	954@1500	196	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684E*E	268 @ 2100	141	N/A	909@1500	185	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9687	F2CE9687A*E	349 @ 2100	179	N/A	1106@1400	231	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9687	F2CE9687B*E	308 @ 2100	160	N/A	1033@1400	213	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9687	F2CE9687C*E	268 @ 2100	141	N/A	959@1400	198	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9685	F2CE9685A*E	389 @ 1800	226	N/A	1135@1800	226	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9604	F2CE9684M*E	383 @ 2100	197	N/A	1217@1800	237	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684N*E	374 @ 2100	187	N/A	1180@1500	247	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684P*E	383 @ 2100	197	N/A	1217@1800	237	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684S*E	400 @ 2100	205	N/A	1199 @ 1800	248	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684T*E	381 @ 2100	195	N/A	1187 @ 1600	248	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684R*E	381 @ 2100	196	N/A	1213 @ 1400	250	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684Q*E	330 @ 2100	172	N/A	1180 @ 1400	244	N/A	DDI, TC, CAC, ECM
AVEXL08.7TR3	F2CE9684	F2CE9684U*E	390 @ 2100	199	N/A	1217 @ 1700	239	N/A	DDI, TC, CAC, ECM

~~Example~~