



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)
2008	8VEXL10.3TR3	10.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Generator 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
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.8	1.3	0.15	18	2	33

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 7 day of February 2008.

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT 2 of 1
Engine Model Summary Template

U-R-015-0144

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
8VEXL10.3TR3	F3AE0684T*E	F3AE0684	463@2100	258	NA	1400@1500	309	NA	DDI, TC, CAC, ECM
8VEXL10.3TR3	F3AE0684S*E	F3AE0684	429@2100	240	NA	1400@1500	309	NA	DDI, TC, CAC, ECM
8VEXL10.3TR3	F3AE0684L*E	F3AE0684	449@2100	251	NA	1400@1500	309	NA	DDI, TC, CAC, ECM
8VEXL10.3TR3	F3AE0684P*E	F3AE0684	425@2100	237	NA	1400@1500	309	NA	DDI, TC, CAC, ECM
8VEXL10.3TR3	F3AE0684N*E	F3AE0684	390@2100	217	NA	1342@1500	295	NA	DDI, TC, CAC, ECM
8VEXL10.3TR3	F3AE0684R*E	F3AE0684	355@2100	197	NA	1226@1500	265	NA	DDI, TC, CAC, ECM
8VEXL10.3TR3	F3AE9687A*E	F3AE9687	425@2100	224	NA	1879@1500	285	NA	DDI, TC, CAC, ECM
8VEXL10.3TR3	F3AE9687B*E	F3AE9687	393@2100	209	NA	1824@1400	277	NA	DDI, TC, CAC, ECM
8VEXL10.3TR3	F3AE9687C*E	F3AE9687	360@2100	195	NA	1745@1400	265	NA	DDI, TC, CAC, ECM
8VEXL10.3TR3	F3AE9685A*E	F3AE9685	449@1800	261	NA	1780@1800	261	NA	DDI, TC, CAC, ECM
8VEXL10.3TR3	F3AE0684K*E	F3AE0684	420@2100	230	NA	1400@1500	309	NA	DDI, TC, CAC, ECM