

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	9VEXL06.7DAA	6.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Smoke Puff Limiter and Exhaust Gas Recirculation			Tractor, 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):

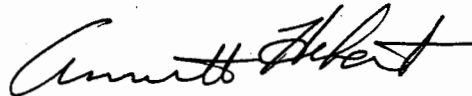
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.7	1.1	0.26	18	4	34

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 January 2009.



Annette Hebert, Chief
 Mobile Source Operations Division

ATTACHMENT 13 (of 1) Engine Model Summary Template

U-R-015-0158

Engine Family	1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate:		5. Fuel Rate:		6. Torque @ RPM (SEA Gross)	7. Fuel Rate:		8. Fuel Rate: (lbs/hr)/peak torque	9. Emission Control Device Per SAE J1930
				mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesels only)	mm/stroke@peak torque	mm/stroke@peak torque					
9VEXL06.7DAA	667TA/MEM	F4GE9684R*J	168 @ 2100	95	N/A	627 @ 1300	129	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	667TA/MEG	F4GE9684A*J	173 @ 2200	98	N/A	568 @ 1250	119	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	667TA/MEH	F4GE9684B*J	173 @ 2300	94	N/A	549 @ 1300	112	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
99VEXL06.7DAA	667TA/MEE	F4GE9684G*J	173 @ 2000	105	N/A	546 @ 1200	114	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	667TA/MED	F4GE9684C*J	162 @ 2300	84	N/A	538 @ 1300	108	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	667TA/MEB	F4GE9684E*J	158 @ 2000	93	N/A	513 @ 1200	99	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	667TA/MEF	F4GE9684D*J	143 @ 2300	76	N/A	457 @ 1200	95	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	667TA/MEC	F4GE9684F*J	141 @ 2000	84	N/A	424 @ 1200	93	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	667TA/MEJ	F4GE9684J/J F4GE9684K/J	139 @ 2200	79	N/A	461 @ 1250	96	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	667TA/MEK	F4CE9684K/J F4GE9684K/J	125 @ 2200	69	N/A	409 @ 1250	85	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	667TA/MEA	F4CE9684L/J F4GE9684L/J	115 @ 2200	64	N/A	384 @ 1250	82	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	N/A	F4CE9684P/J F4GE9684P/J	131 @ 2200	73	N/A	435 @ 1250	93	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	667TA/MEL	F4CE9684H/J F4GE9684H/J	156 @ 2200	83	N/A	513 @ 1250	108	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.
9VEXL06.7DAA	N/A	F4CE9684N/J F4GE9684N/J	169 @ 2200	89	N/A	531 @ 1250	107	N/A	N/A	EM. SPL. TAA.	EM. SPL. TAA.	EM. SPL. TAA.