

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	9VEXL06.7DCA	6.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module, and Exhaust Gas Recirculation			Loader, Tractor, Dozer, 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):

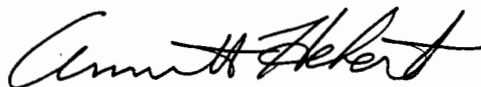
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.20	20	15	50
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.3	0.9	0.07	9	1	12

**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 B (of 1) Engine Model Summary Template

U-R-015-0159

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
9VEXL06.7DCA	667TA/EBU	F4HE9687G*J	255 @ 2100	132	N/A	789 @ 1500	153.2	N/A	EM. EC. CAC. EGR
9VEXL06.7DCA	667TA/EBA	F4HE9684D*J	237 @ 2100	121	N/A	752 @ 1500	144	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBB	F4HE9684P*J F4DE9684P*J	235 @ 2200	116	N/A	752 @ 1500	144	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBG	F4HE9687P*J	235 @ 2000	116	N/A	752 @ 1500	144	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBD	F4HE9684E*J	227 @ 2000	120	N/A	739 @ 1500	143	N/A	EM. EC. CAC
9VEXL06.7DCA	N/A	F4HE9684A*J F4DE9684A*J	207 @ 2200	115	N/A	701 @ 1400	141	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBE	F4HE9684C*J F4DE9684C*J	231 @ 2200	115	N/A	712 @ 1600	141	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBE	F4HE9684S*J F4DE9684S*J	215 @ 2200	110	N/A	692 @ 1600	139	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBH	F4HE9684B*J F4DE9684B*J	235 @ 2200	118	N/A	726 @ 1500	143	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBN	F4HE9684N*J F4DE9684N*J	201 @ 2200	103	N/A	645 @ 1600	129	N/A	EM. EC. CAC
9VEXL06.7DCA	N/A	F4DE9687J*J	207 @ 2200	102	N/A	701 @ 1600	136	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBF	F4HE9684V*J F4DE9684V*J	211 @ 2000	116	N/A	702 @ 1400	139	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBM	F4HE9684J*J	204 @ 2100	109	N/A	690 @ 1500	139	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBJ	F4DE9684C*J	211 @ 2200	107	N/A	639 @ 1400	127.5	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBK	F4DE9684D*J	194 @ 2200	102	N/A	633 @ 1400	127	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBL	F4DE9684E*J	180 @ 2200	93	N/A	623 @ 1400	124	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBP	F4DE9684H*J	165 @ 2200	89	N/A	571 @ 1400	118	N/A	EM. EC. CAC
9VEXL06.7DCA	N/A	F4HE9687A*J	207 @ 2200	102	N/A	701 @ 1400	136	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBR	F4HE9687S*J	227 @ 2200	111.8	N/A	708 @ 1400	135.3	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBV	F4DE9684M*J F4HE9684M*J	243 @ 2200	127	N/A	752 @ 1500	152	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBX	F4HE9687T*J F4DE9687T*J	250 @ 2200	126	N/A	788 @ 1500	153	N/A	EM. EC. CAC
9VEXL06.7DCA	667TA/EBY	F4HE9687N*J F4DE9687N*J	220 @ 2200	114	N/A	752 @ 1500	152	N/A	EM. EC. CAC