

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	AVEXL06.7DCB	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			Tractor, 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):

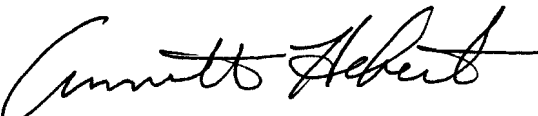
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.5	1.1	0.19	8	2	14

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

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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
AVEXL06.7DCB	667TA/EEA	F4HE9684B*J	204 @ 2100	103	N/A	673 @ 1400	132	N/A	EM, EC, CAC.
AVEXL06.7DCB	667TA/EEC	F4HE9684H*J	198 @ 2100	103	N/A	597 @ 1400	116	N/A	EM, EC, CAC.
AVEXL06.7DCB	667TA/EEG	F4HE9684G*J	184 @ 2100	94	N/A	524 @ 1400	103	N/A	EM, EC, CAC.
AVEXL06.7DCB	667TA/EED	F4HE9684F*J	194 @ 2000	100	N/A	634 @ 1400	122	N/A	EM, EC, CAC.
AVEXL06.7DCB	N/A	F4HE9684Q*J/ F4DE9684Q*J	192 @ 2200	94	N/A	627 @ 1400	119	N/A	EM, EC, CAC.
AVEXL06.7DCB	N/A	F4HE9684W*J/ F4DE9687W*J	180 @ 2200	88	N/A	590 @ 1400	113	N/A	EM, EC, CAC.
AVEXL06.7DCB	667TA/EEJ	F4DE9684Y*J	165 @ 2200	90.2	N/A	509 @ 1400	105	N/A	EM, EC, CAC.
AVEXL06.7DCB	667TA/EEK	F4DE9684J*J	165 @ 2200	90.2	N/A	500 @ 1600	101	N/A	EM, EC, CAC.
AVEXL06.7DCB	667TA/EEL	F4DE9687J*J	165 @ 2200	90.2	N/A	500 @ 1600	101	N/A	EM, EC, CAC.
AVEXL06.7DCB	667TA/EEE	F4HE9684C*J	190 @ 2100	100	N/A	627 @ 1400	124	N/A	EM, EC, CAC.
AVEXL06.7DCB	N/A	F4HE9687B*J/ F4DE9687B*J	173 @ 2200	88	N/A	555 @ 1400	111	N/A	EM, EC, CAC.
AVEXL06.7DCB	667TA/EEF	F4HE9687M*J	190 @ 2200	97	N/A	612 @ 1600	118	N/A	EM, EC, CAC.
AVEXL06.7DCB	667TA/EEM	F4HE9687Q*J	194 @ 2000	102	N/A	671 @ 1400	132	N/A	EM, EC, CAC.
AVEXL06.7DCB	667TA/EEN	F4DE9687Y*J	173 @ 2200	90	N/A	523 @ 1400	106	N/A	EM, EC, CAC.

ECM, EGR, NOx, Te, CAC