

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)
2012	CCEXL06.7AAE	6.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, and Periodic Trap Oxidizer			Crane, Loader, Tractor, Dozer, Pump, Compressor, and Generator Set	

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 (NO<sub>x</sub>), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO<sub>x</sub>), 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	NO <sub>x</sub>	NMHC+NO <sub>x</sub>	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 560	Tier 4 Alt NO <sub>x</sub>	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	1.7	--	0.01	0.000	--	--	--

**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 1 day of July 2011.



Annette Hebert, Chief  
 For Mobile Source Operations Division



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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
130 ≤ kW < 560	Tier 4 Alt NOx	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	1.7	--	0.01	0.000	--	--	--

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Annette Hebert, Chief  
For Mobile Source Operations Division

# Engine Model Summary Template

U-12-002-0593  
Attachment  
6/24/2011

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
CCEXL06.7AAE	3095:FR92543	QSB6.7	300@2500	123	104.1	760@1800	146	88.6	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92980	QSB6.7	275@2500	123	103.3	730@1500	139	70.1	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92544	QSB6.7	260@2500	112	94.7	730@1500	139	70.1	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92545	QSB6.7	240@2500	105	88.2	730@1500	139	70.4	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92546	QSB6.7	225@2500	98	82.8	655@1500	123	62.3	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92981	QSB6.7	195@2500	87	73.3	565@1500	107	54.1	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92985	QSB6.7	260@2200	119	87.9	730@1500	135	68.5	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92552	QSB6.7	240@2200	111	82.0	697@1500	130	65.5	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92553	QSB6.7	220@2200	104	76.8	700@1500	131	66	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92554	QSB6.7	200@2200	95	70.4	685@1400	131	62.1	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92563	QSB6.7	225@2100	109	77.5	700@1500	132	66.9	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92565	QSB6.7	250@2000	126	84.8	730@1500	142	72	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92566	QSB6.7	220@2000	111	75.1	700@1400	134	63.1	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92987	QSB6.7	190@2000	99	66.7	597@1500	114	57.7	DDI,ECM,TC,CAC, EGR, PTOX, OC
CCEXL06.7AAE	3094:FR92574	QSB6.7	215@1800	123	74.4	685@1300	133	58.4	DDI,ECM,TC,CAC, EGR, PTOX, OC