

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)
2011	BCEXL06.7AAF	6.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, and Periodic Trap Oxidizer			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):

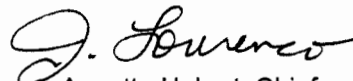
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO <sub>x</sub>	NMHC+NO <sub>x</sub>	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 560	Tier 4 - Alt NO <sub>x</sub>	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	1.4	--	0.0	0.00	--	--	--

**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 25<sup>th</sup> day of February 2011.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

# Engine Model Summary Template

Attachment  
U-12-002-0568  
3/2/2011

Engine Family	1. Engine Code	2. Engine Model	4. Fuel Rate:		5. Fuel Rate:		6. Torque @ RPM (SEA Gross)	7. Fuel Rate:		8. Fuel Rate:		9. Emission Control Device Per SAE J1930
			3. BHP@RPM (SAE Gross)	mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesels only)	(lbs/hr)		mm/stroke@peak torque	(lbs/hr)	@peak torque		
BCEXL06.7AAF	3277:FR92976	QSB7-G	340@1800	199	114.2	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
BCEXL06.7AAF	3277:FR92857	QSB7-G	314@1800	191	109.6	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
BCEXL06.7AAF	3277:FR92857	QSB7-G	274@1500	195	95.1	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
BCEXL06.7AAF	3277:FR93508	QSB7-G	256@1800	144	87.3	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
BCEXL06.7AAF	3277:FR93508	QSB7-G	222@1500	155	78.4	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
BCEXL06.7AAF	3094:FR93515	QSB7	250@2000	126	84.8	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
BCEXL06.7AAF	3094:FR93516	QSB7	220@2000	111	75.1	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
BCEXL06.7AAF	3094:FR93517	QSB7	190@2000	99	66.7	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC