

	<p style="text-align: center;">CUMMINS INC.</p>	<p style="text-align: center;">EXECUTIVE ORDER U-R-002-0497 New Off-Road Compression-Ignition Engines</p>
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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	9CEXL060.AAD	60.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Generator	

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_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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 _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
kW > 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	N/A	N/A	N/A
		CERT	--	--	5.4	0.5	0.09	--	--	--

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 23rd day of December 2008.


 Annette Hebert, Chief
 Mobile Source Operations Division

ATTACHMENT 179 Lot 1
Engine Model Summary Template

U-R-002-0497

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 Device Per SAE J1930	9. Emission Control
				mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak HP (for diesels only)					
9CEXL060.AAD	0930:FR6526	QSK60-G	2922@1800	629	1017.9	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC
9CEXL060.AAD	0930:FR6528	QSK60-G	3251@1800	702	1137	N/A	N/A	N/A	N/A	DDI,ECM,TC,C
9CEXL060.AAD	2769:FR6602	QSK60-G	2922@1800	620	1003.3	NA	NA	NA	NA	DDI,ECM,TC,C
9CEXL060.AAD	2769:FR6671	QSK60-G	2922@1800	620	1003.3	N/A	N/A	N/A	N/A	DDI,ECM,TC,C
9CEXL060.AAD	2769:FR6684	QSK60-G	2922@1800	620	1003.3	N/A	N/A	N/A	N/A	DDI,ECM,TC,C
9CEXL060.AAD	2770:FR6646	QSK60-G	2922@1800	634	1025.6	N/A	N/A	N/A	N/A	DDI,ECM,TC,C
9CEXL060.AAD	2770:FR6646	QSK60-G	2332@1500	586	790	N/A	N/A	N/A	N/A	DDI,ECM,TC,C
9CEXL060.AAD	2770:FR6682	QSK60-G	2785@1800	597	966.9	N/A	N/A	N/A	N/A	DDI,ECM,TC,C
9CEXL060.AAD	2770:FR6682	QSK60-G	2255@1500	554	747.2	N/A	N/A	N/A	N/A	DDI,ECM,TC,C
9CEXL060.AAD	3141:FR6644	QSK60-G	2922@1800	616	997	N/A	N/A	N/A	N/A	DDI,ECM,TC,C
9CEXL060.AAD	3143:FR6645	QSK60-G	3315@1800	702	1137	N/A	N/A	N/A	N/A	DDI,ECM,TC,C
9CEXL060.AAD	3178:FR6665	QSK60-G	2705@1500	676	911.6	N/A	N/A	N/A	N/A	DDI,ECM,TC,C
9CEXL060.AAD	8595:FR6525	QSK60-G	2922@1800	634	1026.1	NA	NA	NA	NA	DDI,ECM,TC,C
9CEXL060.AAD	8595:FR6525	QSK60-G	2334@1500	590	796.3	NA	NA	NA	NA	DDI,ECM,TC,C
9CEXL060.AAD	8595:FR6528	QSK60-G	3251@1800	702	1137	N/A	N/A	N/A	N/A	DDI,ECM,TC,C