

 <b>CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY</b> <b>AIR RESOURCES BOARD</b>	<b>CUMMINS INC.</b>	<b>EXECUTIVE ORDER U-R-002-0391</b> New Off-Road Compression-Ignition Engines
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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)
2007	7CEXL0409AAC	6.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Modules			Loader, Tractor, Dozer, Pump and Compressor	

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):

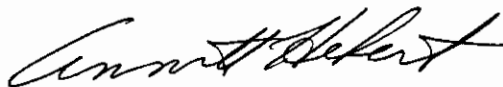
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO <sub>x</sub>	NMHC+NO <sub>x</sub>	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.4	1.8	0.14	6	2	10

**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 14 day of December 2006.



Annette Hebert, Chief  
Mobile Source Operations Division

# ATTACHMENT B (of 2) Engine Model Summary Form

U-E-002-0391

**Manufacturer:** Cummins Inc.  
**Engine category:** Nonroad CI  
**EPA Engine Family:** 7CEXL0409AAC  
**Mfr Family Name:** B313  
**Process Code:** Running Change

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
0426;FR91850	QSB6.7	173 @ 1800	105	64.0	844 @ 1300	136	59.6	ECM, TC, CAC
0426;FR91436	QSB6.7	173 @ 2200	89	66.0	590 @ 1400	122	57.5	ECM, TC, CAC
0426;FR91645	QSB6.7	170 @ 2000	94	63.5	485 @ 1500	104	52.6	ECM, TC, CAC
0426;FR91426	QSB6.7	160 @ 2500	85	71.5	540 @ 1500	118	59.5	ECM, TC, CAC
0426;FR91437	QSB6.7	160 @ 2200	83	61.6	540 @ 1400	117	55.2	ECM, TC, CAC
0426;FR91994	QSB6.7	167 @ 2000	77	51.7	548 @ 1500	118	59.6	ECM, TC, CAC
0426;FR91432	QSB6.7	160 @ 2300	83	64.2	540 @ 1500	119	60.3	ECM, TC, CAC
0426;FR91447	QSB6.7	160 @ 1800	103	62.3	540 @ 1300	117	51.3	ECM, TC, CAC
0426;FR92125	QSB6.7	145 @ 2100	85	60.1	492 @ 1400	105	49.7	ECM, TC, CAC
0426;FR92124	QSB6.7	173 @ 2100	101	71.4	582 @ 1400	125	59.0	ECM, TC, CAC
0427;FR91893	QSB6.7	171 @ 2200	88	65.7	563 @ 1400	113	53.3	ECM, TC, CAC
0427;FR91425	QSB6.7	173 @ 2500	92	77.6	590 @ 1500	132	66.7	ECM, TC, CAC
8733;FR91626	QSB6.7	155 @ 2000	85	57.2	455 @ 1500	102	51.4	ECM, TC, CAC
8733;FR91636	QSB6.7	133 @ 2200	71	52.8	430 @ 1450	92	45.1	ECM, TC, CAC
8733;FR91993	QSB6.7	140 @ 2000	80	53.7	463 @ 1400	98	46.5	ECM, TC, CAC
0426;FR92219	QSB6.7	155 @ 2300	80	61.8	448 @ 1500	100	50.4	ECM, TC, CAC
0426;FR92220	QSB6.7	155 @ 2500	77	64.9	449 @ 1500	97	49.3	ECM, TC, CAC
0426;FR92339	QSB6.7	173 @ 2200	89	66.0	550 @ 1500	120	56.5	ECM, TC, CAC
0426;FR92131	QSB6.7	173 @ 1800	103	64.0	644 @ 1300	136	59.6	ECM, TC, CAC
0426;FR92324	QSB6.7	150 @ 2200	78	57.9	548 @ 1400	119	56.2	ECM, TC, CAC
0426;FR92376	QSB6.7	162 @ 2200	85	63.3	498 @ 1400	107	50.4	ECM, TC, CAC
0427;FR92374	QSB6.7	173 @ 2200	89	66.0	590 @ 1400	122	57.5	ECM, TC, CAC
0427;FR92375	QSB6.7	160 @ 2200	83	61.6	540 @ 1400	117	55.2	ECM, TC, CAC
0426;FR92211	QSB6.7	167 @ 2200	88	65.6	495 @ 1400	104	49.3	ECM, TC, CAC
0426;FR92376	QSB6.7	165 @ 2200	85	63.3	498 @ 1400	107	50.4	ECM, TC, CAC
0426;FR92211	QSB6.7	167 @ 2200	88	65.6	485 @ 1400	104	49.3	ECM, TC, CAC
0427;FR92124	QSB6.7	173 @ 2100	101	71.4	582 @ 1400	125	59.0	ECM, TC, CAC
0427;FR92125	QSB6.7	145 @ 2100	85	60.1	492 @ 1400	105	49.7	ECM, TC, CAC

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0426;FR92493	QSB6.7	160@2200	85	63.3	473@1500	97	50.4	ECM, TC, CAG
0426;FR92376	QSB6.7	170@2200	85	63.3	498@1400	107	50.4	ECM, TC, CAG
ATTACHMENT B 2 of 2								