

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)
2008	8CEXL0409AAB	6.7	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
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 (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 < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.7	1.6	0.17	6	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 10<sup>th</sup> day of December 2007.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

**ATTACHMENT B / of 2**  
**Engine Model Summary Form**

U-R-002-0445

Manufacturer: **Cummins Inc.**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **8CEXL0409AAB**  
 Mfr. Family Name: **A313**  
 Process Code: **Running Change**

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm <sup>3</sup> /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 <sup>3</sup> /stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
8611.FR91421	QSB6.7	275@2500	129	108.8	730@1500	151	76.4	ECM TC CAC
8611.FR91422	QSB6.7	260@2500	121	102.0	730@1500	151	76.4	ECM TC CAC
8611.FR91596	QSB6.7	250@2500	117	98.8	730@1500	151	76.2	ECM TC CAC
8611.FR91596	QSB6.7	240@2500	114	96.1	730@1500	151	76.2	ECM TC CAC
8611.FR91427	QSB6.7	260@2400	124	100.4	730@1500	150	75.9	ECM TC CAC
8611.FR91600	QSB6.7	240@2000	136	91.8	730@1500	150	75.9	ECM TC CAC
8611.FR91429	QSB6.7	260@2300	129	99.8	730@1500	149	75.3	ECM TC CAC
8611.FR92276	QSB6.7	260@2500	124	104.5	550@1500	120	60.6	ECM TC CAC
8611.FR91433	QSB6.7	260@2200	135	99.8	730@1500	150	75.9	ECM TC CAC
8611.FR92279	QSB6.7	275@2300	135	104.5	725@1500	149	75.2	ECM TC CAC
8611.FR92599	QSB6.7	275@2500	125	105.7	620@1500	129	65.4	ECM TC CAC
8610.FR91599	QSB6.7	215@2100	116	82.1	700@1200	146	68.9	ECM TC CAC
8610.FR91653	QSB6.7	220@2200	114	84.4	700@1500	148	75.0	ECM TC CAC
8610.FR91688	QSB6.7	185@2500	97	81.8	575@1500	128	64.7	ECM TC CAC
8610.FR91598	QSB6.7	193@2200	104	77.1	674@1400	142	67.0	ECM TC CAC
8610.FR92419	QSB6.7	205@2500	90	76.1	625@1500	128	64.9	ECM TC CAC
8610.FR92113	QSB6.7	190@2500	98	82.3	520@1500	112	56.9	ECM TC CAC
8610.FR92141	QSB6.7	215@2500	105	88.7	620@1500	129	65.3	ECM TC CAC
8610.FR91597	QSB6.7	215@2500	107	90.9	655@1500	146	73.4	ECM TC CAC
8610.FR92288	QSB6.7	220@2500	110	92.8	640@1500	135	68.5	ECM TC CAC
8610.FR91406	QSB6.7	190@2200	98	72.7	685@1400	141	66.6	ECM TC CAC
8610.FR91496	QSB6.7	200@2100	107	75.8	547@1500	117	59.2	ECM TC CAC
8610.FR91417	QSB6.7	220@2000	124	83.5	700@1400	146	73.9	ECM TC CAC
8610.FR91434	QSB6.7	220@2200	111	82.3	700@1500	148	74.9	ECM TC CAC
8606.FR91428	QSB6.7	190@2400	92	74.5	685@1500	140	70.8	ECM TC CAC
8606.FR91430	QSB6.7	220@2300	110	85.5	700@1500	149	75.4	ECM TC CAC
8606.FR91430	QSB6.7	189@2050	109	75.3	548@1500	121	61.3	ECM TC CAC
8606.FR91437	QSB6.7	203@2000	108	73.0	604@1450	148	69.8	ECM TC CAC

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ATTACHED TO 401 C

8466.FR91445	OSB6.7	205@1800	126	76.7	685@1300	143	62.7	ECM TC CAC
8466.FR91998	OSB6.7	228@2100	126	89.2	700@1500	148	75.0	ECM TC CAC
8466.FR91481	OSB6.7	190@2300	102	78.9	685@1500	145	73.5	ECM TC CAC
8466.FR92058	OSB6.7	195@2300	100	77.7	542@1200	109	44.0	ECM TC CAC
8466.FR92059	OSB6.7	220@2300	110	110.2	597@1500	128	64.5	ECM TC CAC
8466.FR92112	OSB6.7	185@2200	96	71.2	685@1400	141	66.6	ECM TC CAC
8466.FR92095	OSB6.7	186@2200	99	73.4	547@1500	114	57.7	ECM TC CAC
8466.FR91950	OSB6.7	220@2200	116	86.1	650 @ 1500	135	68.3	ECM TC CAC
8466.FR92212	OSB6.7	185@2200	99	73.3	546@1400	113	53.5	ECM TC CAC
0656.FR91910	OSB7-G3	233@1500	166	84.0	NA	NA	NA	ECM TC CAC
0656.FR91910	OSB7-G3	250@1800	151	91.8	NA	NA	NA	ECM TC CAC
0656.FR92054	OSB7-G2	234@1800	140	84.9	NA	NA	NA	ECM TC CAC
0656.FR92054	OSB7-G2	204@1500	143	72.3	NA	NA	NA	ECM TC CAC
0656.FR92053	OSB7-G1	173@1800	105	63.7	NA	NA	NA	ECM TC CAC
0656.FR92053	OSB7-G1	154@1500	113	57.2	NA	NA	NA	ECM TC CAC
8611.FR92515	OSB6.7	275@2500	129	108.7	730@1500	125.9	63.7	ECM TC CAC
8611.FR92515	OSB6.7	275@2500	129	108.7	730@1500	125.9	63.7	ECM TC CAC
8611.FR92866	OSB6.7	240@2200	124	92	650@1500	136	69	ECM TC CAC

Handwritten mark resembling a stylized 'D' or 'P' with a long horizontal line extending to the right and a curved arrow pointing downwards.