

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	7CEXL0505AAE	8.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler (some models), Engine Control Module			Crane, 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):

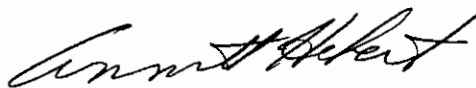
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	-	-	4.0	1.8	0.16	4	1	11

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

Engine Model Summary Form

U-R-002-034Z

ATTACHMENT 2 (06Z)

Manufacturer: **Cummins Inc.**
 Engine category: **Nonroad CI**
 EPA Engine Family: **7CEXL0505AAE**
 Mr Family Name: **L413**
 Process Code: **Running Change**

1. Engine Code	2. Engine Model	3.BHP@RPM (SAE Gross)	4. Fuel Rate: mm ³ /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 ³ /stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
8539;FR91358	QSC	305@2200	159	118.2	1020@1500	208	105.2	ECM, TC, CAC
8630;FR91506	QSC	305@2200	159	118.2	1020@1500	208	105.2	ECM, TC, CAC
8630;FR91691	QSC	290@2200	157	116.2	1000@1500	195	98.7	ECM, TC, CAC
8630;FR92001	QSC	245@1800	149	90.7	870@1400	197	93.0	ECM, TC, CAC
8639;FR91516	QSC	240@2200	129	95.9	800@1500	171	86.5	ECM, TC, CAC
8639;FR91915	QSC	250@2200	130	96.3	835@1400	176	88.9	ECM, TC, CAC
8627;FR91695	QSC	275@2200	146	108.1	896@1500	196	98.9	ECM, TC, CAC
8627;FR91503	QSC	260@2200	136	101.2	870@1400	166	83.8	ECM, TC, CAC
8538;FR91698	QSC	245@2200	130	96.5	857@1500	183	92.5	ECM, TC, CAC
8538;FR91357	QSC	240@2200	129	95.9	800@1500	171	86.5	ECM, TC, CAC
8636;FR91512	QSC	250@2200	130	96.3	835@1500	176	88.9	ECM, TC, CAC
0409;FR91853	QSC	245@2000	139	93.8	938@1400	193	90.9	ECM, TC, CAC
8746;FR91514	QSC	215@2200	100	74.5	675@1500	125	63.2	ECM, TC, CAC
1632;FR91505	QSC	215@2200	100	74.5	675@1500	125	63.2	ECM, TC, CAC
8633;FR91509	QSC	300@2200	159	118.1	1000@1500	207	104.6	ECM, TC, CAC
8634;FR91510	QSC	280@2200	147	109.3	1000@1500	103	102.8	ECM, TC, CAC
8637;FR91513	QSC	230@2200	122	90.7	800@1500	172	86.8	ECM, TC, CAC
8631;FR91507	QSC	305@2100	164	116.2	1020@1500	206	104.4	ECM, TC, CAC
8632;FR91508	QSC	300@2100	162	114.5	1000@1500	203	102.5	ECM, TC, CAC
8626;FR91502	QSC	280@2100	157	111.0	1000@1500	202	102.3	ECM, TC, CAC
1738;FR92024	QSC	207@1950	121	79.5	746@1450	166	81.3	ECM, TC, CAC
1766;FR92042	QSC	220@2000	126	85.1	645@1400	134	63.4	ECM, TC, CAC
1632;FR91505	QSC	215@2200	118	87.5	675@1500	148	74.8	ECM, TC, CAC
8746;FR91514	QSC	215@2200	118	87.5	675@1500	148	74.8	ECM, TC, CAC
8627;FR91503	QSC	260@2200	136	101.2	870@1400	179	90.5	ECM, TC, CAC
8634;FR91510	QSC	280@2200	150	111.2	1000@1500	203	102.8	ECM, TC, CAC
8630;FR91507	QSC	305@2100	164	116.2	1020@1500	206	104.4	ECM, TC, CAC
8630;FR91508	QSC	300@2100	162	114.5	1000@1500	203	102.5	ECM, TC, CAC

Item	QSC	300@2200	159	118.1	1000@1500	207	104.6	ECM TC CAC
8630:FR91509	QSC	300@2200	159	118.1	1000@1500	207	104.6	ECM TC CAC
8627:FR91357	QSC	240@2200	129	95.9	800@1500	171	86.5	ECM TC CAC
8627:FR91502	QSC	280@2100	157	111.0	1000@1500	202	102.3	ECM TC CAC
8627:FR91510	QSC	280@2200	150	111.2	1000@1500	203	102.8	ECM TC CAC
8627:FR91512	QSC	250@2200	130	96.3	835@1500	176	88.9	ECM TC CAC
8627:FR91513	QSC	230@2200	122	90.7	800@1500	172	86.8	ECM TC CAC
8627:FR91698	QSC	245@2200	130	96.6	857@1500	183	92.5	ECM TC CAC
8627:FR91853	QSC	245@2000	139	93.8	938@1400	193	90.9	ECM TC CAC
8627:FR92001	QSC	245@1800	149	90.7	870@1400	197	93.0	ECM TC CAC
1632:FR92042	QSC	220@2000	126	85.1	645@1400	134	63.4	ECM TC CAC
2705:FR92333	QSC	260@1900	150	96.4	830@1400	178	83.9	ECM TC CAC

ATTACHMENT B, 2 of 2

U-R-002-0392