

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)
2005	5CEXL0505ABD	8.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler			Crane, Loaders, Tractor, Dozer, Pump, 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 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		CERT	--	--	5.9	0.8	0.17	13	4	40

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 13TH day of October 2004.


 Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Summary Form

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U-R-002-0282

Manufacturer: **Cummins Inc.**
 Engine category: **Nonroad CI**
 EPA Engine Family: **5CEXL0505ABD**
 Mfr Family Name: **G413**
 Process Code: **Correction**

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
8185;FR90882	6C8.3	265@2200	143	106.1	922@1500	182	92.1	DDI,TC,CAC
8185;FR90883	6C8.3	250@2200	132	98.2	853@1500	166	83.9	DDI,TC,CAC
8185;FR90886	6C8.3	240@2200	130	96.4	824@1500	164	82.9	DDI,TC,CAC
8185;FR91194	6C8.3	260@2200	138	102.7	890@1500	174	87.8	DDI,TC,CAC
2996;FR90893	6C8.3	207@2200	114	84.8	743@1400	146	68.7	DDI,TC,CAC
2996;FR90892	6C8.3	215@2200	120	89.0	719@1500	141	71.4	DDI,TC,CAC
8197;FR91003	6C8.3	202@2000	113	76.3	675@1350	130	59.0	DDI,TC,CAC
8197;FR91272	6C8.3	207@2000	118	174.9	697@1400	134	63.5	DDI,TC,CAC
8211;FR90887	6C8.3	230@2200	126	93.6	804@1500	152	79.8	DDI,TC,CAC
8307;FR91002	6C8.3	185@2200	106	78.8	631@1500	127	64.1	DDI,TC,CAC
2997;FR90895	6C8.3	205@2200	115	83.6	714@1500	142	70.2	DDI,TC,CAC
8407;FR91215	6C8.3	215@2200	115	83.2	640@1600	124	65.5	DDI,TC,CAC
8407;FR91216	6C8.3	180@2200	94	68.9	535@1600	106	56.5	DDI,TC,CAC
8197;FR91003	6C8.3	202@2000	113	76.3	638@1500	130	59.0	DDI,TC,CAC
8197;FR91272	6C8.3	207@2000	118	74.9	642@1575	134	63.5	DDI,TC,CAC