



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	8X9XL0505AAE	8.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Tractor	

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):

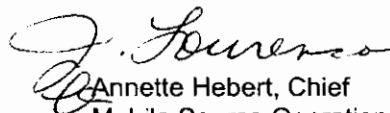
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO <sub>x</sub>	NMHC+NO <sub>x</sub>	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	4.0	1.8	0.16	4	1	11

**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<sup>th</sup> day of December 2007.



Annette Hebert, Chief  
Mobile Source Operations Division

# ATTACHMENT B (of 1) Engine Model Summary Form

Manufacturer: **CNH Engine Corp.**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **8X9XL0505AAE**  
 Mr. Family Name: **L413**  
 Process Code: **New Submission**

U-R-011-0111

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
8539;FR91358	6TAA-8304	305@2200	159	118.2	1020@1500	208	105.2	DI, ECM TC CAC
8539;FR91354	6TAA-8304	299@2200	159	118.1	1008@1500	207	104.6	ECM TC CAC
8539;FR92422	6TAA-8304	305@2200	155	115.0	1020@1500	202	102.0	ECM TC CAC
8539;FR92062	6TAA-8304	290@2200	158	117.5	1020@1500	204	103.2	ECM TC CAC
8535;FR91400	6TAA-8304	244@2200	130	96.5	857@1500	183	92.5	ECM TC CAC
8535;FR91501	6TAA-8304	270@2200	143	106.2	948@1500	201	101.5	ECM TC CAC
8535;FR91372	6TAA-8304	275@2000	156	105.4	1029@1400	208	98.3	ECM TC CAC
8535;FR91353	6TAA-8304	248@2000	139	93.8	938@1400	193	90.9	ECM TC CAC
8535;FR91359	6TAA-8304	275@2200	146	108.1	896@1500	196	98.9	ECM TC CAC
8535;FR92520	6TAA-8304	275@2200	140	104.0	896@1500	180	91.0	ECM TC CAC
8745;FR91558	6TAA-8304	217@2200	118	87.5	754@1500	159	80.4	ECM TC CAC
8745;FR91559	6TAA-8304	221@2000	126	85.0	824@1400	168	79.3	ECM TC CAC
1376;FR91693	6TAA-8304	288@2000	159	107.1	1020@1400	201	95.1	ECM TC CAC