

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)
2003	3X9XL0505ABC	8.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Powertrain Control Module			Tractor	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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
		FEL	N/A	N/A	6.4	N/A	N/A	N/A	N/A	N/A
		CERT	--	--	5.8	1.1	0.11	6	1	14

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.


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.

This Executive Order hereby cancels and replaces Executive Order U-R-011-0072-1 dated April 10, 2003.

Executed at El Monte, California on this 3RD day of December 2003.


 Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Primary Form

ATTACHMENT Pg 1 of 1

U-12-011-0072-1

Manufacturer: CNH Engine Corporation
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 3X9XL0505ABC
 Mr Family Name: D413
 Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm ³ /stroke @ peak I/P (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak I/P (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
8152FR9915	6TAA-8901	300@2100	148	104.5	1000@1400	193	91.2	PGM-TIC,CAO
8088FR91022	6TAA-8904	254@2200	119	88.8	910@1400	174	92.0	PGM-TIC,CAO
8264FR9910	6TAA-8904	275@2000	149	96.8	788@1400	150	70.7	PGM-TIC,CAO
8264FR9909	6TAA-8904	258@2000	197	92.4	950@1400	102	85.9	PGM-TIC,CAO
8867FR9910	6TAA-8904	283@2000	147	99.1	1040@1400	199	93.9	PGM-TIC,CAO
8876FR91028	6TAA-8904	279@2200	184	99.4	1000@1400	192	90.6	PGM-TIC,CAO

Model FR9915 with 365 hp is the correct engine. Sure as EF 3X9XL0505ABC engine.