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CNH Engine Corporation, Inc.

EXECUTIVE ORDER U-R-011-0062-1 New Off-Road Compression-Ignition Engines

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-45-9;

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) 8000		
2002	2X9XL0505ABC	8.3	Diesel			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Direct Dies	sel Injection, Turbocharg Powertrain Control	er, Charge Air Cooler, 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	EMISSION			E	XHAUST (g/kw-h	nr)		OF	PACITY (%	(a)
POWER	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
CLASS 130 < KW < 225		STD	1.3	9.2	N/A	11.4	0.54	20	15	50
150 3100 - 220	1101	FEL.	N/A	6.9	N/A	N/A	0.17	N/A	N/A	N/A
		CERT	0.2	5.2		0.8	0.12	6	1	10

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-011-0062 dated December 28, 2001.

Executed at El Monte, California on this ______ day of April 2002.

Allen Lyons, Chief

New Vehicle/Engine Programs Branch

Engine Model S mary Form

11-8-011-0062-1

Manufacturer: CNH Engine Corporation, Inc.

Engine category: Nonroad Over 50 Hp

EPA Engine Family: 2X9XL0505ABC

Mfr Family Name: D413

Process Code: New Submission

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9.Emission Control Device Per SAE J1930	, PCM, TC, CAC	PCM, TC, CAC	PCM, TC, CAD	PCM, TC, CAC	PCM, TC, CAG						
8.Fuel Rate: (lbs/hr)@peak torque	88.5 DDZ,	, 78.6	91.2	81.7	90.2	90.2	70.7	94.6	94.6	84.0 \	
7.Fuel Rate: mm/stroke@peak torque	188	167	193	173	191	191	150	201	201	178	
6.Torque @ RPM (SEA Gross)	1022@1400	904@1400	1000@1400	904@1400	1022@1400	1022 @ 1400	793@1400	1040@1400	1040@1400	922@1250	
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	93,1	82.4	104.5	85.3	93.0	93.0	96.8	102.0	102.0	88.0	
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	138	122	148	126	138	138	143	151	151	130	
3.BHP@RPM (SAE Gross)	278@2000	246@2000	300@2100	246@2000	278@2000	278@2000	275@2000	283@2000	283@2000	251@2000	
2.Engine Model	6TAA-8304	6TAA-8304	6TAA-8304	6TAA-8304	6TAA-8304	6TAA-8304	6TAA-8304	6TAA-8304	6TAA-8304	6TAA-8304	
1.Engine Code	2241;FR90205	2241;FR90204	2892;FR90691	2698:FR90739	2698;FR90740	2698;FR90771	8001;FR90934	8001;FR91100	8001;FR91021	8001;FR91020	