CNH ENGINE CORPORATION, INC.

EXECUTIVE ORDER U-R-011-0097 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-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	5X9XL0540AAB	8.8	Diesel	8000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT AP	PLICATION
Direct Dies	sel Injection, Turbocharge Engine Control Mo		Crane, Loader, Tractor, Dozer, Pu	mp and Compressor

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	EXHAUST (g/kw-l	nr)		OI	PACITY (%	(a)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	РМ	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		FEL	N/A	N/A	4.0	N/A	N/A	N/A	N/A	N/A
		CERT			3.9	3.2	0.16	5	2	13

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

Executed at El Monte, California on this _______ day of January 2005.

Allen Loons, Chief

Mobile Source Operations Division

Engine Model Summary Form ATTACHMENT PS 10€1

Manufacturer: CNH Engine Corp.

Engine category: Nonroad CI

EPA Engine Family: 5X9XL0540AAB

Mfr Family Name: B563

Process Code: Running Change

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
8548 FR91672 8547;FR91374	6TAA-9004 6TAA-9004	350@2100 304@2000	160 148	113.4 99.8	1120 @15 00 1109@1400	184	93.6 DD 86.9	93.6 bbr ECM, TC, CAC 86.9 , ECM, TC, CAC
8548;FR91672 8547:FR91374	6TAA-9004 6TAA-9004	350@2100 304@2000	174	134.1	1120@1500 1109@1400	218 216	110.1	ECM, TC, CAC ECM, TC, CAC
8548; FR91377	6TAA-9004	365@2100	192	136.1	1113@1500	202	113.0	EGM, TC, GAG
8548;FK916/2	51AA- 9004	350@2100	192	1.30.0	1 ZVW 19VV	677) O.61	