California Environmental Protection Agency AIR RESOURCES BOARD	CNH ENGINE CORPORATION, INC.	EXECUTIVE ORDER U-R-011-0109 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)
2007	7X9XL0540AAB	8.8	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module	Crane, Loader, Tractor, Dozer, Pump and 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
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.9	3.3	0.15	5	2	13

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 day of December 2006.

Annette Hebert, Chief
Mobile Source Operations Division

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Engine Model Summary Form

U-R-011-0109

Manufacturer: **CNH Engine Corp.**

Engine category: **Nonroad CI**

EPA Engine Family: **7X9XL0540AAB**

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	6TAA-9004	350@2100	192	135.8	1120@1500	223	113.0 DD1,	ECM,TC,CAC
8548;FR91377	6TAA-9004	365@2100	192	136.1	1113@1500	202	102.2	ECM,TC,CAC
8548;FR91880	6TAA-9004	305@2100	171	121.2	1070@1400	212	100.1	ECM,TC,CAC
8548;FR91515	6TAA-9004	324@2100	176	124.6	1050@1500	213	107.0	ECM,TC,CAC
8547;FR91374	6TAA-9004	304@2000	174	117.4	1109@1400	216	102.2	ECM,TC,CAC
8547;FR91880	6TAA-9004	305@2100	171	121.2	1070@1400	212	100.1	ECM, TC, CAC
8547;FR91515	6TAA-9004	324@2100	176	124.6	1050@1500	213	107.0	ECM, TC, CAC
2736;FR92370	6TAA-9004	330@2100	178	126.1	1155@1500	230	116.3	ECM,TC,CAC
2736;FR92371	6TAA-9004	304@2000	170	114.5	1109@1400	226	106.7	ECM,TC,CAC
2736;FR92372	6TAA-9004	320@2200	171	126.6	1070@1500	219	110.8	ECM,TC,CAC
8548;FR92190	6TAA-9004	350@2200	179	133.0	1110@1500	221	112.0	ECM,TC,CAC
8548;FR92191	6TAA-9004	340@2200	175	130.0	1107@1500	219	111.0	ECM,TC,CAC
2736;FR92488	6TAA-9004	275@2000	154	103.9	1029@1400	206	97.3	ECM,TC,CAC
8547;FR92190	6TAA-9004	350@2200	179	133.0	1110@1500	221	112.0	ECM,TC,CAC
8547;FR92191	6TAA-9004	340@2200	175	130.0	1107@1500	219	111.0	ECM,TC,CAC