California Environmental Protection Agency AIR RESOURCES BOARD	CNH UK LIMITED	EXECUTIVE ORDER U-R-008-0078 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)
2008	8NHXL06.7DCB	6.7	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation and Engine Control Module	Tractor, Dozer, Generator and Other Industrial Equipment

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
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.5	1.1	0.19	8	2	14

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 19th day of December 2007.

J. Lourenco

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT B 1 of 1

Engine Model Summary Form

U-R-008-0578

Manufacturer: **CNH UK LTD**

Engine category: **Nonroad and Stationary CI**

EPA Engine Family: **8NHXL06.7DCB**

Mfr Family Name: **667TA/EE**

Process Code: **New Submission**

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
667TA/EEA	F4HE9684B*J	204 @ 2100	103	N/A	673 @ 1400	132	N/A	DDI, EM. EC, CAC. EGR TC
667TA/EEC	F4HE9684H*J	198 @ 2100	103	N/A	597 @ 1400	116	N/A	EM. EC, CAC.
667TA/EEG	F4HE9684G*J	184 @ 2100	94	N/A	524 @ 1400	103	N/A	EM. EC, CAC.
667TA/EED	F4HE9684F*J	194 @ 2000	100	N/A	634 @ 1400	122	N/A	EM. EC, CAC.
N/A	F4HE9684Q*J	192 @ 2200	94	N/A	627 @ 1400	119	N/A	EM. EC, CAC.
N/A	F4DE9684Q*J	192 @ 2200	94	N/A	627 @ 1400	119	N/A	EM. EC, CAC.
N/A	F4HE9684W*J	180 @ 2200	88	N/A	590 @ 1400	113	N/A	EM. EC, CAC.
N/A	F4DE9684W*J	180 @ 2200	88	N/A	590 @ 1400	113	N/A	EM. EC, CAC.
667TA/EEJ	F4DE9684Y*J	165 @ 2200	90.2	N/A	509 @ 1400	105	N/A	EM. EC, CAC.
667TA/EEK	F4DE9684J*J	165 @ 2200	90.2	N/A	500 @ 1600	101	N/A	EM. EC, CAC.
667TA/EEL	F4DE9687J*J	165 @ 2200	90.2	N/A	500 @ 1600	101	N/A	EM. EC, CAC.
667TA/EEE	F4HE9684C*J	190 @ 2100	100	N/A	627 @ 1400	124	N/A	EM. EC, CAC.
N/A	F4HE9687B*J	173 @ 2200	88	N/A	555 @ 1400	111	N/A	EM. EC, CAC.
N/A	F4DE9687B*J	173 @ 2200	88	N/A	555 @ 1400	111	N/A	EM. EC, CAC.
667TA/EEF	F4HE9687M*J	190 @ 2200	97	N/A	612 @ 1600	118	N/A	EM. EC, CAC.
667TA/EEM	F4HE9687Q*J	194 @ 2000	102	N/A	671 @ 1400	132	N/A	EM. EC, CAC.