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)		
2009	9NHXL04.5DCA	4.5	Diesel	8000		
SPECIAL	FEATURES & EMISSION					
Direct Dies Exhaust G	el Injection, Turbocharg Gas Recirculation and Er	er, Charge Air Cooler, ngine Control Module	Loader, Tractor, Generator Set 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	EMISSION		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
75 <u><</u> kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT			3.7	0.9	0.13	12	2	15

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 2009.

Annette Hebert, Chief Mobile Source Operations Division

12-R-000-0085

Manufacturer: CNH UK LTD

Engine Model Summary Form

Engine category: Nonroad and Stationary CI

EPA Engine Family: 9NHXL04.5DCA

Mfr Family Name: 445TA/EG

Process Code: New Submission

	60.	_		-			-	\geq
8.Fuel Rate: 9.Emission Control bs/hn)@peak torque Device Per SAE J1930	DOL EM.EC.TAA. CAC ESE	EM.EC.TAA. CAC						
8.Fuel Rate: (lbs/hr)@peak torq	N/A M	N/A	N/A	N/A	N/A	N/A	N/A I	N/N
7.Fuel Rate: mm/stroke@peak torque	136	126.4	119.6	111.7	118.6	126.4	121	135
6.Torque @ RPM (SEA Gross)	448 @ 1600	438 @ 1400	415 @ 1400	384 @ 1400	406 @ 1600	423 @ 1600	381 @ 1400	448 @ 1600
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4.Fuel Rate: mm/stroke @ peak HP (for diesei only)	110	100.9	93.1	84.3	98.0	104.9	86	116
3.BHP@RPM (SAE Gross)	140 @ 2200	130 @ 2200	120 @ 2200	110@ 2200	130 @ 2200	140 @ 2200	110.@ 2200	135 @ 2000
1.Engine Code 2.Engine Model	F4DE9484A⁺J/ F4HE9484A⁺J	F4DE9484B*J	F4DE9484D*J	F4DE9484E*J	F4DE9487B*J	F4DE9487A*J	F4HE9484C*J	F4HE9484F*J
1.Engine Code	445TAVEGA	445TA/EGB	445TA/EGC	445TA/EGD	445TA/EGJ	445TA/EGK	445TA/EGH	445TA/EGE