CNH UK LIMITED

EXECUTIVE ORDER U-R-008-0075 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	8NHXL04.5DTD	4.5	Diesel	8000		
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Exhaust Gas Recirculation and Smoke Puff Limiter			Loader, Tractor, Dozer, 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		нс	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
	56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
Ī			CERT			4.3	1.4	0.33	14	10	20

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 /4 the day of November 2007.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

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	為		1. A 1.1 A 1	11 - R - SP - Architecture	The state of the s	>
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930	NIA DOL EM. SPL. TC., ELOK	EM. SPL. TC.	EM. SPL. TC.	EM. SPL. TC.	EM. SPL. TC.	FM SPI TC
8.Fuel Rate: (lbs/hr)@peak torquel	N/A	CONTRACTOR OF THE PROPERTY OF	NAME OF THE PERSON OF THE PERS	N/A	N/A	A/N
7.Fuel Rate: mm/stroke@peak torque		A CALLER AND THE STATE OF THE S	110	86	102	66
6.Torque @ RPM (SEA Gross)	270 @ 1800	231 @ 1800	302 @ 1400	273 @ 1320	288 @ 1320	284 @ 1380
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	N/A	N/A	N/A	N/A	N/A	N/A
4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM (for diesel only) (for diesels only) (SEA Gross)	88	76	88.2	76		A 4
	93 @ 1800	79 @ 1800	99 @ 2200	84 @ 2200	89 @ 2200	90 @ 2300
Engine Family 1. Engine Code 2. Engine Model (SAE Gross)	F4GE9455A*J	F4GE9455B*J	F4CE9454H*J/ F4GE9454H*J	F4GE9454K*J	F4GE9454J*J	F4GE94540°J/ F4CE94540°J
1.Engine Code	Water (Americal Constitution of Constitution o	(в Мероковій менена від від від на мероконіце чето містанацем від парасе	445T/MMM	445T/MMG	N/A	445T/MMC
Engine Family	8NHXI 04 EDTD	WINE CONTRACTOR OF THE PROPERTY OF THE PROPERT	SNHX! OA COAD	SNHXI OF EDIT	SMEXICA CONTROL	UTUC' #000 CONTROL OF THE CONTROL OF