State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-8-8 Relating to Certification of New Off-Road Compression-Ignition Engines

NEW HOLLAND U.K. LTD.

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-45-9;

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:

Model Year: 2001

Typical Equipment Usage: Loader and tractor

Fuel Type: Diesel

	Engine		
Engine Family	Displacement	Useful Life	Emission Control Systems <u>and Special Features</u> Direct Diesel Injection
1NHXL05.0A1N	(liters)	(hours)	
(450/N)	5.0	8000	

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) (units are expressed in grams per kilowatt-hour (g/kw-hr)), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

Engine Power	Emission Standard	Exhaust Emissions (g/kw-hr)					Smoke Opacity (%)			
<u>Rating (kw)</u> 37 <u>≤</u> KW<130	<u>Category</u> Tier 1	Standard	HC N/A	<u>NOx</u> 9.2	NMHC+NOx N/A	<u>CO</u> N/A	<u>PM</u> N/A	Accel 20	<u>Lug</u> 15	Peak 50
		Certification		8.3				8	10	11

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels— 1996 and Later Off-Road Compression-Ignition Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2425 and 2426).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this

day of March 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model Summary Form

Attachmeni

50# U-R-8-8

anufacturer:

New Holland UK Ltd

ngine category:

Nonroad Cl

PA Engine Family:

1NHXL05.0A1N

Ifr Family Name:

450/N

rocess Code:

New Submission

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_p	9.Emission Control
N/A	450/NB	92 @ 2200	72	N/A			, 0,,	7CVICE FEI 3AE 31930
N/A	450/NE	88 @ 2170	68		262 @ 1400	80	N/A	DOI E.M.
N/A	450/NC	83 @ 2200		N/A	251 @ 1400	78	N/A	I E.M.
<u>- </u>			64	N/A	248 @ 1400	74		V EM-

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