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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-8-1

Relating to Certification of New Heavy-Duty Off-Road Equipment Engines
NEW HOLLAND U.K. LTD.

Pursuant to the authority vested in the Air Resources Board by Sections 43000.5, 43013 and 43018 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 New Holland U.K. Ltd. 1996 model-year engine, with rated power between 175 and 750 horsepower, and exhaust emission control systems are certified as described below for use in heavy-duty off-road equipment:

Typical Equipment Usage: Agricultural Tractor, Combine

<u>Fuel Type</u>: Diesel

Engine Family	Liters (C	ubic Inches)	Exhaust Emission Control Systems and Special Features
TNH7.5R6DARA	7.5	(456)	Turbocharger Charge Air Cooler

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 total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matters (PM) certification exhaust emission standards, in grams per brake horsepower-hour (g/bhp-hr), and the opacity of smoke emission standards, in percent (%), during acceleration (Accel), lugging (Lug), and peak (Peak) modes, for this engine family are (Title 13, California Code of Regulations, Section 2423):

Exhaust Emissions (g/bhp-hr)				Smoke Opacity (%)			
<u>THC</u>	<u>co</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Luq</u>	<u>Peak</u>	
1.0	8.5	6.9	0.4	20	15	50	

The THC, CO, NOx and PM exhaust emission certification values, in g/bhp-hr, and the opacity of smoke emission certification values, in percent (%), for this engine family are:

	Exhaust Emission (g/bhp-hr)				Smoke Opacity (%)		
Engine Family	<u>THC</u>	<u>co</u>	<u>NOx</u>	<u>PM_</u>	<u>Accel</u>	<u>Luq</u>	<u>Peak</u>
TNH7.5R6DARA	0.4	0.7	6.0	0.2	6	8	13

BE IT FURTHER RESOLVED: That the listed engine models comply with the "Exhaust Emission Standards and Test Procedures--Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Emission Control Labels--1996 and Later Heavy-Duty Off-Road Diesel Cycle 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, Section 2425 et seq.).

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

Executed at El Monte, California this

day of December 1995.

R B. Summerfield

Assistant Division Chief

Mobile Source Division

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Manufacturer_	New Holland U	.K. Ltd / 456 L _ 49S 50S	Eng	ine Family <u>TN</u>	17.5R6DARA	(010)
Displacement:	7.400	1 450	iters/Cubic In	nches Eng	Config: 1 -1	O/UHV
All Codes in	Eng Fam: CA	49S 50S_	XX Cert	t Test Proced	ures: ARB_	EPA_XX
Valves/Ports	per Cylinder_	2 valves/cyl 277	Stro	okes per Comb	ustion Cycl	e_4-stroke
Maximum Rated	Power:	277	HP (<u>207</u>	KW)	0 220)RPM
		Comp				
Fuel Type(s):	Dedicated_XX	Flex-Fuel	Oual-Fuel	Die	sel <u>xx</u> MlC	00 M85
		KG LPG				
Diesel Cert F	uel: 40 CFR 8	36.1313-94 <u>XX</u>	Other (spe	ec1fy)		
Primary Servi	ce Equipment:	Agricultural T	ractor (VA,VB	,VH),.Combine	(VL,VM)	
Exhaust ECS (e.g., MFI, TC.	, CAC): EM, TC	, CAC		,	· · · · · · · · · · · · · · · · · · ·
•	•	•	(use abbreviat	tions per SAE	J1930 JUNS	93)
Engine Model (Eng Code)	Rated HP 0 RPM	Fuel Rate @3Rated HP mm3 / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
675TA/VB	260 @ 2100	130	87800844/ 81876871	N/A	N/A	N/A
675TA/VH	196 @ 2100	105	87800862/ 87841116	N/A	·N/A	N/A·
675TA/VA	226 @ 2100	114	87800845/ 81876871	N/A	N/A	· N/A ·
675TA/VL	277 @ 2200	137	87800860/ 87840446	N/A	N/A	N/A
675TA/VM	206 @ 2100	107.5	87800861/ 87841116	N/A	N/A	N/A
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Date Issued: Revisions:	1st December	1995			<u> </u>	1