

File

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-8-3

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. 1998 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

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
WNHXL07.5A3V	7.5 (456)	Turbocharger Charge Air Cooler Smoke Puff Limiter

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):

<u>Exhaust Emissions (g/bhp-hp)</u>				<u>Smoke Opacity (%)</u>		
<u>THC</u>	<u>CO</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</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:

<u>Engine Family</u>	<u>Exhaust Emissions (g/bhp-hr)</u>				<u>Smoke Opacity (%)</u>		
	<u>THC</u>	<u>CO</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
WNHXL07.5A3V	0.3	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 10<sup>th</sup> day of December 1997.



R. B. Summerfield, Chief  
Mobile Source Operations Division

# LARGE ENGINE MODEL SUMMARY

11/26/97

Manufacturer: New Holland      ED# U-R-8-3      Process Code: New Submission

EPA Engine Family: WNHXL07.5A3V      Manufacturer Family Name: 675TAV

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
N/A	675TAVB	260 @ 2100	130	N/A	854 @ 1500	167	N/A	TC EM, SPL CAC
N/A	675TAVH	196 @ 2100	105	N/A	671 @ 1500	132	N/A	TC EM, SPL CAC
N/A	675TAVA	226 @ 2100	114	N/A	754 @ 1500	147.5	N/A	TC EM, SPL CAC
N/A	675TAVJ	226 @ 2100	111.5	N/A	716 @ 1700	136	N/A	TC EM, SPL CAC
N/A	675TAVK	247 @ 2100	125	N/A	617 @ 1700	152	N/A	TC EM, SPL CAC
N/A	675TAVL	277 @ 2200	137	N/A	839 @ 1800	166	N/A	TC EM, SPL CAC
N/A	675TAVM	206 @ 2100	107.5	N/A	650 @ 1700	128.5	N/A	TC EM, SPL CAC
N/A	675TAVN	277 @ 2100	141.5	N/A	839 @ 1800	166	N/A	TC EM, SPL CAC
N/A	675TAVP	261 @ 2100	129.5	N/A	816 @ 1700	155	N/A	TC EM, SPL CAC
N/A	657TAVR	206 @ 2100	107.5	N/A	650 @ 1700	128.5	N/A	TC EM, SPL CAC
N/A	675TAVT	176 @ 2100	94	N/A	595 @ 1500	114	N/A	TC EM, SPL CAC