(Page 1 of 2)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-12-1

Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION

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 Navistar International Transportation Corporation 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: Industrial Equipment, Tractor, Crawler, Wheeler

Loader, Stationary Power Unit

Fuel Type: Diesel

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
TNV466R6DARA	7.6	(466)	Turbocharger Smoke Puff Limiter 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 (q/bhp-hr)			Smoke Opacity (%)			
<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:

	Exhaust Emission (g/bhp-hr)			<u>Smoke</u>	<u>Opacity</u>	(%)	
Engine Family	THC	<u>co</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
TNV466R6DARA	0.1	0.8	4.1	0.1	8	5	14

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 day of January 1996.

R. B. Summerfield Assistant Division Chief Mobile Source Division

E.O. #	U-R-12-1	
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1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Page 1

Manafacturer Navistar International Transpo	Engine Family TNV466R6	DARA				
Displacement: 7.6 /	Liters	466 /	Cubic Inches			
Ignition: Compression X	Compression with Glow Plug	Spark				
Fuel Type(s) Dedicated X Flex-Fuel	Dual-Fuel Bi-Fu	el Diesel _X CNG				
LNG LPG	M85 M100	Other (specify)				
Diesel Cert Fuel: 13 CCR 2282	40 CFR 86.1313-90	40 CFR 86.1313-94	X			
Maximum Rated Power: 275 HF	@ RPN	1 Engine Config	uration I-6			
Exhaust ECS (include, MFI, TC, CAC):	DI TC CAC SPL					
(Use abbreviations per SAE J1930 SEP91)						

Engine Mode (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm^3 / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM / PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
IA275	275 @ 2400	131.8 (106.0)	Pumps 1820269C91 Nozzles			
IA250	250 @ 2400	124.7 (100.3)	1823937C91 Pumps 1820269C91A Nozzles 1823937C91			

Date Issued: 12/14/95

Revisions:

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