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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-12-4

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: Generator

Fuel Type: Diesel

Engine Family	<u>Liters</u>	(Cubic Inches)	Exhaust Emission Control Systems and Special Features		
TNV466R6DASD	7.6	(466)	Turbocharger		

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)			p-hr)_	<u>Smoke</u>	<u>Opacity (%)</u>	
Engine Family	<u>THC</u>	<u>co</u> _	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
TNV466R6DASD	0.1	0.6	5.4	0.1	-	4	-

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. $_{\mathcal{A}}$

day of March 1996.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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Manafacturer Navistar	International Trans	sportation Corp.		ne Family	TNV466R6DAS	
Displacement: All Eng Codes in Eng Fam Valves / Ports per Cylinder Maximum Rated Power Ignition: Compression Fuel Types: Dedicated M85 Diesel Cert Fuel: 40.6	7.6 / 466 ily: CA 2 valves 195 X Co X Flex-Fuel CNG CFR 86.1313-94	6 Liters / Cu 49 50S 3 / cylinder	Stroke per 800 RPM w Plug Gasoline Other (Test Procedure Combustion Cy (145 Spark Diesel specify) specify)	s: ARB X	EPA X
Primary Service Equipment Exhaust ECS (e.g., MFI,		EM DI TC	se abbreviations pe	er SAE J1930	JUN93)	

Engine Model (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.
GA195	195 @ 1800	125.7 (75.8)	Pumps 1820271C91E Nozzies 1823937C91			

Date Issued: 2/19/96			,	
Revisions :	 			

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