

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-4-193

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 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 1997 model-year Navistar International Transportation Corporation diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
VNV530E8DASA	8.7 (530)	Turbocharger Charge Air Cooler Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

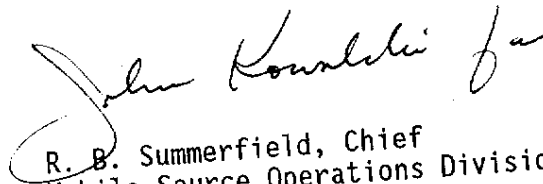
<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
VNV530E8DASA	0.2	1.1	4.7	0.07

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 2035 et seq.).

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

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 30th day of October 1996.



R. B. Summerfield, Chief
Mobile Source Operations Division

**1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES**

Manufacturer Navistar International Transportation Corp. Engine Family VNV530E8DASA (530 E)

Displacement: 8.7 / Liters 530 / Cubic Inches

Ignition: Compression Compression with Glow Plug Spark

Fuel Type(s) Dedicated Flex-Fuel Dual-Fuel Bi-Fuel Diesel CNG

LNG LPG M85 M100 Other (specify)

Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94

Maximum Rated Power: 320 HP @ 2000 RPM Engine Configuration 1-6

Exhaust ECS (include. MFI, TC, CAC): EM DI TC CAC ECM
(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.
A300	300 @ 2000	165.0 (110.6)	<u>Injectors</u> 1824741C1	<u>ECM</u> 1807404C1		
AF320	320 @ 2000	176.0 (118.0)	"	1807405C1		
AF300	300 @ 2000	165.0 (110.6)	"	"		
AL300	300 @ 2000	165.0 (110.6)	"	"		
All Above	As Above	As Above	As Above	1807349C1,C2 C3, *C4		

Date Issued : 9/12/96

Revisions : *8/13/97

17.01-47 530E 11vy