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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-4-123

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-45-3;

IT IS ORDERED AND RESOLVED: That the following Navistar International Transportation Corporation 1988 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating over 8,500 pounds:

| | Displacement | | Exhaust Emission Control Systems | | |
|---------------|-----------------|---------------|---|--|--|
| Engine Family | <u>Liters (</u> | Cubic Inches) | (Special Features) | | |
| JNV0466EPA5 | 7.6 | (466) | (Diesel Injection - Direct) (Turbocharger) | | |

Engine models and codes are listed on attachments.

The following are emission standards for this engine family except that the demonstation for meeting the cabon monoxide standard has been waived per Subpart A, Part 86, Title 40, Code of Federal Regulations, Section 86.088-23(c)(2)(i):

| Hydrocarbons _gm/bhp-hr | Carbon Monoxide gm/bhp-hr | Nitrogen Oxides gm/bhp-hr | Particulates _gm/bhp-hr | |
|----------------------------|---------------------------------|------------------------------|----------------------------|--|
| 1.3 | 15.5 | 6.0 | 0.60 | |

The following are the certification emission values for this engine family:

| Engine Family | Hydrocarbons | Nitrogen Oxides | Particulates |
|---------------|--------------|-----------------|--------------|
| | gm/bhp-hr | gm/bhp-hr | gm/bhp-hr |
| JNV0466EPA5 | 0.9 | 5.6 | 0.47 |

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION

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.

Executed at El Monte, California this 23^{vel} day of November, 1987.

K. D. Drachand, Chief Mobile Source Division

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

| Manufacturer <u>Navistar International Transportation Corp.</u> | Engine F | JNV0466EPA5 amily (DT-466) |
|---|----------|-------------------------------|
| Liter (CID)7.6 (466) | | ype <u>Four Stroke, I-6</u> |
| Emission Control Sys. and (Special Features) (DID, TC) | | |

| Engine Model | Fuel Injection Pump Mfr. Part Number | Injector Mfr. Part Number | Maximum Rated HP at RPM | Fyel Rate mm /stroke (lbs/hr) | Maximum Rated Torque at RPM | Fuel Rate mm /stroke (lbs/hr) |
|-----------------|---|---------------------------------|-------------------------------|-------------------------------------|--------------------------------------|-------------------------------------|
| D185C | Robert Bosch 1811765C91 | U.T.D.S. 1806407C91 | 185 @ 2600 | 92.9 (80.9) | 461 @ 1800 | 96.7 (58.3) |
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Date of Issue ____

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Revisions:

030186/1880C01.JRB

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