

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-4-148

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 1993 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

| <u>Engine Family</u> | <u>Displacement Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems and Special Features</u> |
|----------------------|---|--|
| PNV0466EPAX | 7.6 (466) | Turbocharger Smoke Puff Limiter |

Engine models and codes are listed on attachments.

The following are the certification 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 | 0.25 |

The following are the certification emission values for this engine family in grams per brake-horsepower-hour, except that compliance with the carbon monoxide emission standard has been demonstrated pursuant to Title 40, Code of Federal Regulations, Part 86, Subpart A, Section 86.088-23(c)(2)(i):


| <u>Engine Family</u> | <u>Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Particulates</u> |
|--------------------------|---------------------|----------------------------|----------------------------|---------------------|
| PNV0466EPAX | 0.3 | 1.4 | 4.7 | 0.25 |

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 1st day of September, 1992.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

(DT-466)

Manufacturer Navistar International Transportation Corp. Engine Family PNVO466EPAX
 Liter (CID) 7.6 (466) Fuel Type Diesel Engine Config. I-6
 Exhaust ECS & Special Features (ECM/PCM, PTOX, IFI, etc.) EM TC SPL
 (Use abbreviations per **SAE J1930 May91**)

| Engine Model (Eng. Code) | Rated HP @ RPM | Fuel Rate @ Rated HP mm ³ /stroke (lbs/hr) | Fuel Pump & Injector P/N | ECM/PCM P/N | Part. Trap/ Catalyst P/N |
|-----------------------------|-------------------|--|--|----------------|--------------------------------|
| E195 (E195) | 195 @ 2400 | 100.7 (81.0) | Pump 1815517C91 Nozzle 1817104C91 | | |
| E210 (E210)) | 210 @ 2400 | 108.4 (87.4) | Pump 1815515C91 Nozzle 1817394C91 | | |

Revisions: