

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-4-129
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 1990 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

<u>Engine Family</u>	<u>Displacement</u>		<u>Exhaust Emission Control Systems</u>
	<u>Liters</u>	<u>(Cubic Inches)</u>	
LNV07.3DAA23 (7.3LD)	7.3	(443)	Engine Modification Indirect Diesel Injection

Engine models and codes are listed on attachments.

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

<u>Hydrocarbons</u> <u>gm/bhp-hr</u>	<u>Carbon Monoxide</u> <u>gm/bhp-hr</u>	<u>Nitrogen Oxides</u> <u>gm/bhp-hr</u>	<u>Particulates</u> <u>gm/bhp-hr</u>
1.3	15.5	6.0	0.60

The following are the certification emission values for this engine family, except that compliance with the carbon monoxide emission standard has been demonstrated pursuant to the Code of Federal Regulations, Title 40, Part 85, Subpart A, Section 86.088-23(c)(2)(1):

<u>Engine Family</u>	<u>Hydrocarbons</u> <u>gm/bhp-hr</u>	<u>Nitrogen Oxides</u> <u>gm/bhp-hr</u>	<u>Particulates</u> <u>gm/bhp-hr</u>
7.3LD	0.6	4.4	0.24

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 (Health and Safety Code Section 43205.5).

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 12th day of May, 1989.



K. D. Drachand, Chief
Mobile Source Division

1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 HEAVY-DUTY DIESEL ENGINES

LNV07.3DAA23

Manufacturer Navistar International Transportation Corp. Engine Family (7.3LD)
 Liter (CID) 7.3 Engine Type Four Stroke, V-8
 Emission Control Sys. and (Special Features) EM IDI

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm ³ /stroke (lbs/hr)	Maximum Rated Torque at RPM	Fuel Rate mm ³ /stroke (lbs/hr)
A185	Stanadyne 1813250C91 1813102C91	All Models CAV 1812042C91 1805803C91 & Stanadyne 1812042C91 1813345C91	185 @ 3300	58.5 (86)	345 @ 1980	61.0 (54)
A166	Stanadyne 1813255C91 1813112C91	↓ ↓ ↓ ↓	166 @ 3300	53.5 (79)	316 @ 1980	56.0 (49.5)
A170	Stanadyne 1809096C92	↓ ↓ ↓ ↓	170 @ 3000	57.5 (77)	332 @ 1600	58.8 (42)
A155	Stanadyne 1809083C92	↓ ↓ ↓ ↓	155 @ 3000	52.0 (70)	304 @ 1600	53.5 (38)
A130	Stanadyne 1811303C92	↓ ↓	130 @ 2700	45.3 (54.6)	272 @ 1600	47.0 (33.6)

Date of Issue May 1, 1989 Revisions: