

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-4-207

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 1998 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>
WNVXH0530CCD	8.7 (531)	Turbocharger Charge Air Cooler Engine Control Module Oxidation Catalytic Converter

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>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	4.0	0.10

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

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
0.1	3.2	4.0	0.08

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.).

BE IT FURTHER RESOLVED: That the aforementioned engine family has been conditionally certified subject to the following conditions:

1. Any engine which employs a defeat device shall not be covered by this Executive Order.
2. Within 90 days following the issuance of this Executive Order, the manufacturer must show cause, to the satisfaction of the Executive Officer or his designee, that the strategy for fuel injection timing, including timing during the fuel economy mode, is not a defeat device.

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 10th day of December 1997.



R. B. Summerfield, Chief
Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

11/10/97

Manufacturer: **Navistar A-4-207**

Process Code: **New Submission**

EPA Engine Family: **WNVXHH0530CCD**

Manufacturer Family Name: **INT 530E**

1. Engine Code 2. Engine Model 3. BHP@RPM
(SAE Gross)

4. Fuel Rate:
mmstroke @ peak HP
(for diesel only)

5. Fuel Rate:
(lbs/hr) @ peak HP
(for diesels only)

6. Torque @ RPM
(SEA Gross)

7. Fuel Rate:
mmstroke@peak
torque

8. Fuel Rate:
(lbs/hr)@peak torque

9. Emission Control
Device Per SAE J1930

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mmstroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mmstroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
AL300C	AL300C	300 @ 2000	164.6	110.2	860 @ 1300	161.9	70.5	DI, ECM, TC, CAC, OC
AF300C	AF300C	300 @ 2000	164.6	110.2	950 @ 1300	179	78	DI, ECM, TC, CAC, OC
A300C	A300C	300 @ 2000	164.6	110.2	1050 @ 1300	199.2	86.8	DI, ECM, TC, CAC, OC
AF320C	AF320C	320 @ 2000	172.4	115.5	950 @ 1300	179	78	DI, ECM, TC, CAC, OC
A330C	A330C	330 @ 2000	179.4	120.2	950 @ 1300	179	78	DI, ECM, TC, CAC, OC