

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-276-21

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

NISSAN DIESEL MOTOR CO., LTD

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 1999 model-year Nissan Diesel Motor Co., Ltd. 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>
XNDXH04.6FAB	4.6 (282)	Turbocharger Charge Air Cooler Oxidation Catalytic Converter 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>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>
1.0	4.3	3.8	0.09

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 17<sup>th</sup> day of September 1998.



R. B. Summerfield, Chief  
Mobile Source Operations Division

# C. LARGE ENGINE MODEL SUMMARY

8/3/98

EO: A-276-21

Manufacturer: Nissan Diesel Motor Co., Ltd. Process Code: New Submission

EPA Engine Family: XNDXH04.6FAB Manufacturer Family Name: N/A

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm <sup>3</sup> /stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm <sup>3</sup> /stroke@peak torque	8.Fuel Rate: (lb/hr)@peak torque	9.Emission Control Device Per SAE J1930
FD46TA-U1 MT	FD46TA-U1	175	104.0@ 2800	63.7@ 2800	334@ 1800	96.0@ 1800	37.8@ 1800	OC,TC,CAC,ECM
FD46TA-U1 AT	FD46TA-U1	175	104.0@ 2800	63.7@ 2800	334@ 1800	96.0@ 1800	37.8@ 1800	OC,TC,CAC,ECM
FD46TA-U2 MT	FD46TA-U2	145	88.5@ 2800	54.2@ 2800	276@ 1800	77.0@ 1800	30.3@ 1800	OC,TC,CAC,ECM
FD46TA-U2 AT	FD46TA-U2	145	88.5@ 2800	54.2@ 2800	276@ 1800	77.0@ 1800	30.3@ 1800	OC,TC,CAC,ECM