

State of California  
AIR RESOURCES BOARD

## EXECUTIVE ORDER A-276-12

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-45-3;

IT IS ORDERED AND RESOLVED: That the following Nissan Diesel Motor Co., Ltd. 1994 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>Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems and Special Features</u>       |
|--------------------------|------------------------------|--------------------------------------------------------------------|
| RND254C6DAAA<br>(TD42TI) | 4.2 (254)                    | Turbocharger<br>Oxidation Catalytic Converter<br>Charge Air Cooler |

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>Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Particulates</u> |
|---------------------|------------------------|------------------------|---------------------|
| 1.3                 | 15.5                   | 5.0                    | 0.10                |

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

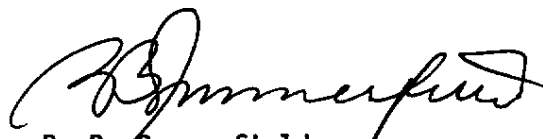
| <u>Engine Family</u> | <u>Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Particulates</u> |
|----------------------|---------------------|------------------------|------------------------|---------------------|
| RND254C6DAAA         | 0.3                 | 1.1                    | 3.3                    | 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 27<sup>th</sup> day of April, 1994.

A handwritten signature in dark ink, appearing to read "R. B. Summerfield", is written over the typed name and title.

R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

Section 16.00.00.00 Request for Certificate  
 .03.00.00 Certification Information

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1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
 HEAVY-DUTY DIESEL ENGINE

Manufacturer NISSAN DIESEL MOTOR CO., LTD. Engine Family RND254C8DAAA

Liters (CID) 4.169 (254) Fuel Type (N94-2) Diesel Engine Config. Inline 6 (6 cylinders)

Emission Control Sys. & Special Features TC, CAC, OC  
 (Use abbreviations per SAE J1930 Sep. 91)

| Engine Model<br>(Eng. Code) | Fuel Pump<br>Mfr. P/N                                                                      | Injector<br>Mfr. P/N                | Rated HP<br>& RPM   | Fuel Rate<br>@ Rated HP<br>cc/stroke<br>(mm <sup>3</sup> /stroke) | Part.<br>Catalyst<br>Mfr. P/N          |
|-----------------------------|--------------------------------------------------------------------------------------------|-------------------------------------|---------------------|-------------------------------------------------------------------|----------------------------------------|
| TD42TI<br>(TD42TI)          | ZEXEL<br>CORPORATION<br>a*<br>16700 09D62<br><br>ZEXEL<br>CORPORATION<br>b*<br>16700 10D62 | ZEXEL<br>CORPORATION<br>16800 09D60 | 140 HP<br>@3500 RPM | 0.0555<br>(55.6)                                                  | CALSONIC<br>CORPORATION<br>20800 09D61 |

a\* and b\*----- No difference exists with regard to the emission-related specifications of the injection pump component between these two injection pump assembly part numbers.

a\* : for Manual Transmission  
 b\* : for Automatic Transmission

Issue Date : 2/21/94  
 Revision No. :  
 Date :