

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-27
Relating to Certification of New Motor Vehicle Engines

NISSAN DIESEL MOTOR COMPANY 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 Nissan Diesel Motor Company Ltd. 1978 model-year diesel-powered engines in heavy-duty motor vehicles with manufacturer's gross vehicle weight rating greater than 8500 pounds are certified for the engine family, codes and models described below:

<u>Family</u>	<u>Engine Size (CID)</u>	<u>Type</u>
SD331	198	Natural Aspiration

Models and Engine Codes as listed in attachment.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the manufacturer affix a decal to the side window to the rear of the driver or, if there is no such window on the driver's side, to the windshield of the motor vehicle.

The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following recommended values:

<u>Engine Family</u>	<u>HC + NOx gm/bhp-hr</u>	<u>CO gm/bhp-hr</u>	<u>HC gm/bhp-hr</u>	<u>NOx gm/bhp-hr</u>
SD331	not applicable	4	0.4	3.4

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 14 day of November, 1977.


G. C. Hass, Chief
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Nissan Diesel Executive Order No. A-15-27 Page 1

Engine Family SD331 Engine (CID) 198

ABBREVIATIONS

Distributor

C-Centrifugal Advance

V-Vacuum Advance

VR-Vacuum Retard

HEI-High Energy Ignition

EI-Electronic Ignition

Fuel System

EFI, FI

nV-nVenturi Carburetor

VV-Variable Venturi

Exhaust Emissions Control System

AI-Air Injection

CAI-Catalyst Air Injection

CAB-Chamber Air Bleed

DD-Dual Displacement

EFI-Electronic Fuel Injection

EGR-Exhaust Gas Recirculation

EM-Engine Modification

EFE-Early Fuel Evaporation

ESAC-Electronic Spark Advance
Control

FI-Fuel Injection

OC-Oxidation Catalyst

PAI-Pulse Air Injection

RC-Reduction Catalyst

TC-Turbo Charged

TR-Thermal Reactor

TWC-Three Way Catalyst
(Feedback Control)EGR Syst. ServiceI-Inspect, repair/replace
as needed

R-Replace

Engine Family

Model

SD331

SD33

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer Nissan Diesel Executive Order No. A-15-27-1 Page 7Engine Family SD331 Engine (CID) 198Emission Control Systems None Type NA

Engine Model	Fuel Injection Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP (1)	Basic Initial Timing
SD33	Diesel Kiki 16700 90909 *16700 90910	Diesel Kiki 16600 90019	89 @ 3800	38.0	20° BTDC @ 600 RPM

Comments

(1) Cubic millimeters per stroke

* see R/C 77 RC-2

Date of Issue

Abbreviations

Type

NA - Natural Aspiration

TC - Turbocharged

TCA- Turbocharged and Aftercooled

Emission Control Systems

AC - Aftercooler

EGR - Exhaust Gas Recirculation

TD - Throttle Delay

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer Nissan Diesel Executive Order No. A-15-27 Page 2
 Engine Family SD331 Engine (CID) 198
 Emission Control Systems None Type NA

Engine Model	Fuel Injection Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP MM ³ /stroke	Basic Initial Timing
SD33	Diesel KiKi 16700 90909	Diesel KiKi 16600 90019	89 @ 3800	38.0	20° BTDC @ 600 RPM

Comments

Date of Issue 11-11-77

Abbreviations
Type
 NA - Natural Aspiration
 TC - Turbocharged
 TCA- Turbocharged and Aftercooled

Emission Control Systems
 AC - Aftercooler
 EGR - Exhaust Gas Recirculation
 TD - Throttle Delay