

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-12  
Relating to Certification of New Motor Vehicle Engines

AB VOLVO

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 AB Volvo 1979 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
TD 70	409	(Turbocharged and Aftercooled)

Engine Models and Codes as listed on attachments.

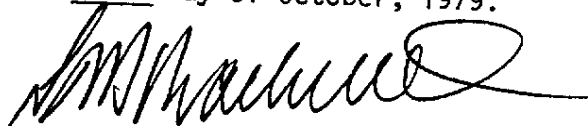
Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>
TD 70	1.3	3	7.1

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

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

Executed at El Monte, California this 2 day of October, 1979.



K. D. Drachand, Acting Chief  
Mobile Source Control Division

## 1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer AB Volvo Executive Order No. A-18-12 Page 1

Engine Family TD 70 Engine (CID) 409

## ABBREVIATIONS

Ignition System

CA-Centrifugal Advance

EI-Electronic Ignition

ESAC

VA-Vacuum Advance

VR-Vacuum Retard

Fuel System

EFI, MFI

nV-nVenturi Carburetor

VV-Variable Venturi

Exhaust Emissions Control System

AI-Air Injection

CAV-Comb. Chamber Air Valve

EFI-Electronic Fuel Injection

EGR-Exhaust Gas Recirculation

EM-Engine Modification

ESAC-Electronic Spark Advance Control

MFI-Mechanical Fuel Injection

OC-Oxidation Catalyst

PAI-Pulse Air Injection

TC-Turbo Charged

TR-Thermal Reactor

TWC-Three Way Catalyst

(Feedback Control)

WOC-Warm-up Oxidation

Catalyst

<u>Engine Family</u>	<u>Model</u>	<u>Code</u>
TD 70	TD70F	I

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer Volvo Page 2

Engine Family TD 70 Engine (CID) 409

Emission Control Systems \_\_\_\_\_ Type TCA

Engine Model	Fuel Injection Pump Mfg. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP $\text{mm}^3/\text{stroke}$	Basic Initial Timing
TD70F	Bosch 466708 A401860626	Bosch 466891 0432191872	230 @ 2400	113	18° BTDC

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