

E.C. Book

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-15
Relating to Certification of New Motor Vehicle Engines

VOLVO TRUCK 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-45-3;

IT IS ORDERED AND RESOLVED: That the following Volvo Truck Corporation 1980 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>
TD40	219	(Turbocharged)

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:

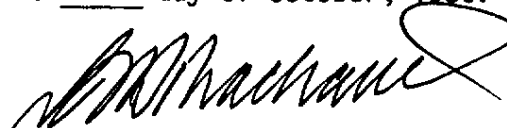
<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>
TD40	0.5	2	4.2

BE IT FURTHER RESOLVED: That Volvo Truck Corporation has provided to the Executive Officer all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 attachment.

Executed at El Monte, California this 22 day of October, 1980.


R. D. Drachand, Chief
Mobile Source Control Division

1980 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Volvo Truck Corporation Executive Order No. A-18-15 Page 1
 Engine Family TD40 Engine (CID) 219

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 EEC-Electronic Engine Control
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard

Fuel System

EFI, MFI
 nV-nVenturi Carburetor
 VV-Variable Venturi

Exhaust Emissions Control System

AI-Air Injection
 CL-Closed Loop
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification
 OC-Oxidation Catalyst
 PAI-Pulse Air Injection
 TR-Thermal Reactor
 TWC-Three Way Catalyst

Special Features

CCAV-Combustion Chamber Air Valve
 EFI-Electronic Fuel Injection
 MFI-Mechanical Fuel Injection
 TC-Turbo Charged

Engine Family

TD40

Model

TD40A

Code

I

1980 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Volvo Truck Corporation Page 1A

Engine Family TD40 CID-Type 219 - L-6

ECS (Special Features) (Turbocharged)




Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum ³ HP mm ³ /stroke	Label Ident.
TD40A	Bosch 0 460 416 001 Volvo Part No. 1542150	Bosch 0432297032 Volvo Part No. 1542155	118 @ 3600	52	See page 1B

Date of Issue -

1980 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Volvo Truck Corporation

Executive Order No. A-18-15 Page 1B

ENGINE EXHAUST EMISSION CONTROL INFORMATION	
VOLVO VOLVO TRUCK CORPORATION, SWEDEN 219 CID VOLVO TD 40A CODE I SPL	
DATE OF ENGINE MANUFACTURE	 
ADVERTISED HP	118 SAE GROSS AT 3600 RPM
FUEL RATE AT ADVERTISED HP	52 mm ³ /STROKE
VALVE LASH (COLD ENGINE) INTAKE .0157" EXHAUST .0157"	
INJECTION TIMING: SETTING VALUE 3 DEGREES ATDC AT 1mm PLUNGE LIFT	
LOW IDLE SPEED (INDIFFERENT OF TRANSMISSION)	625-700 RPM
HIGH IDLE SPEED (OR ACCESSORIES USED)	4000-4050 RPM
THIS ENGINE CONFORMS TO U.S. ENVIRONMENTAL PROTECTION AGENCY REGULATIONS APPLICABLE TO MODEL YEAR DIESEL HEAVY DUTY ENGINES. 	
THIS ENGINE CONFORMS TO CALIFORNIA REGULATIONS APPLICABLE TO MODEL YEAR NEW DIESEL HEAVY DUTY ENGINES. 