

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-28  
Relating to Certification of New Motor Vehicles

VOLVO CAR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1983 model-year Volvo Car Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars.

| <u>Engine Family</u> | <u>Displacement<br/>Cubic Inches (Liters)</u> | <u>Exhaust Emission Control Systems<br/>(Special Features)</u>     |
|----------------------|---|--|
| DVV174V6FCG7         | 174 (2.85)                                    | Three-Way Catalyst with Closed Loop<br>(Mechanical Fuel Injection) |

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the emission standards for this engine family to be listed on the window decal required by California Assembly-Line Test Procedures for 1983 model-year vehicles:

| <u>Hydrocarbons<br/>Grams per Mile</u> | <u>Carbon Monoxide<br/>Grams per Mile</u> | <u>Nitrogen Oxides<br/>Grams per Mile</u> |
|--|---|---|
| 0.41                                   | 7.0                                       | 0.7                                       |

The following are the certification emission values for this engine family:

| <u>Hydrocarbons<br/>Grams per Mile</u> | <u>Carbon Monoxide<br/>Grams per Mile</u> | <u>Nitrogen Oxides<br/>Grams per Mile</u> |
|--|---|---|
| 0.33                                   | 1.9                                       | 0.2                                       |

BE IT FURTHER RESOLVED: That the listed vehicle models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

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

Vehicles 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 18<sup>th</sup> day of August, 1982.



K. D. Drachand, Chief  
Mobile Source Control Division

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Volvo Car Corp. Executive Order No. A-18-28 Page 1  
 Engine Family DVV174V6FCG7 Evaporative Family E2  
 Engine CID (Liters) 174 (2.85)

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

CFI, CL, DID, DIP, EFI, MFI  
 nV-nVenturi Carburetor  
 VV-Variable Venturi

Exhaust Emissions Control System

AIP-Air Injection-Pump  
 AIV-Air Injection-Valve  
 CL-Closed Loop  
 EGR-Exhaust Gas Recirculation  
 EM-Engine Modification  
 OC-Oxidation Catalyst System  
 TR-Thermal Reactor  
 TWC-Three Way Catalyst System

Special Features

CCV-Combustion Chamber Valve  
 CFI-Central Fuel Injection  
 DID-Diesel Injection-Direct  
 DIP-Diesel Injection-Prechamber  
 MFI-Mechanical Fuel Injection  
 TC-Turbocharged

Models: GLE Volvo 760

DRIVE SYSTEM: Front engine/Rear Wheel Drive

# VOLVO

08.13.00.00-1

1983 Models

## Section 08.13

## VEHICLE ROAD LOAD

| <u>Model</u> | <u>Test Weight</u><br><u>lbs</u> | <u>Tires</u> | <u>A/C</u> | <u>Coast Down</u><br><u>Time</u> | <u>Dyno Hp</u> |
|--------------|----------------------------------|--------------|------------|----------------------------------|----------------|
| Sedan DL     | 3,250                            | D175SR14     | Yes        | 13.0                             | 10.7           |
| Sedan GL     | 3,250                            | D185/70SR14  | Yes        | 13.1                             | 10.8           |
| " " " "      | 3,375 Diesel                     |              |            |                                  | 11.9           |
| Wagon DL     | 3,375                            | D185SR14     | Yes        | 13.6                             | 11.0           |
| Wagon GL     | 3,375                            | D185SR14     | Yes        | 13.4                             | 11.2           |
| " " " "      | 3,500 Diesel                     |              |            |                                  | 12.1           |
| 760 GL       | 3,125                            | D185/70SR14  | Yes        | 13.4                             | 10.3           |
| 760 GL       | 3,250                            | D185/70SR14  | Yes        | 14.0                             | 10.1           |
| 760 GL       | 3,375                            | D185/70SR14  | Yes        | 14.6                             | 10.1           |
| 760 GLE      | 3,250                            | P185/65SR15  | Yes        | 14.1                             | 9.2            |
| 760 GLE      | 3,375                            | P185/65SR15  | Yes        | 14.2                             | 9.7            |
| 760 GLE      | 3,500                            | P185/65SR15  | Yes        | 14.7                             | 9.5            |

|              |             |  |  |
|--------------|-------------|--|--|
| Issue Date   | 14 MAJ 1982 |  |  |
| Revision NO. | 4           |  |  |
|              | 9/17        |  |  |

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars     Light-Duty Trucks     Medium-Duty Vehicles     Gas     Diesel  
 Manufacturer VOLVO CAR CORPORATION    E.O. #A - 18-28  
 Engine Family DVV174V6FCG7    CID (liter) - Type <sup>174</sup> (2.85) Liter, V-6  
 ECS (Special Features) CA, MFI, CL, TWC

| Engine Code | Vehicle Models (If Coded see attachment) | Trans. | Ign. System  | Fuel System                           | EGR Valve      | Label Ident.  |
|-------------|--|--------|--|---------------------------------------|----------------|---------------|
|             |  |        | Part No.   | Part No.                              | Part No.       | Part No.      |
| FCGX        | 760 GLE                                  | A4     | Spark Plugs:<br>Volvo 247204<br>Bosch HR 6 DS<br><br>Distributor Ass'y.<br>Volvo 1269380<br>Bosch 0237402017<br><br>Electronic Control Unit<br>Volvo 1269118<br>Bosch 0227100019 | See Application Page<br>16.04.01.01-1 | Not Applicable | Volvo 1320478 |

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

\*Add 10% to dyno test HP for air conditioning usage.

Date of Issue -  
Revisions: