

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-34  
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 1984 model-year Volvo Car Corporation exhaust emission control systems are certified as described below for diesel-powered passenger cars:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
EVV2.4D6JTC5	145 (2.4)	Exhaust Gas Recirculation (Diesel Injection - Prechamber) (Turbocharged)

Vehicle models, transmissions and engine codes are 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 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles".

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.41	7.0	1.0

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.38	1.3	0.8

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's 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 6<sup>th</sup> day of February, 1984.



K. D. Drachand, Chief  
Mobile Source Division

Manufacturer Volvo Car Corporation Executive Order No. A-18-34  
 Engine Family EVV2.4D6JTC5 Evaporative Family N.A.  
 Engine CID (Liters) 145 (2.4)

## ABBREVIATIONS

Ignition System

CA-Centrifugal Advance  
 EEC-Electronic Engine Control  
 -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  
 EFI-Electronic Fuel Injection  
 MFI-Mechanical Fuel Injection  
 TC-Turbocharged

VEHICLE MODELS:

4 Dr. 760 GLE Turbo Diesel 4 speed automatic transmission with overdrive.

DRIVE SYSTEM: Front Engine/Rear -wheel Drive

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Manufacturer Volvo Car Corporation Page \_\_\_\_\_

Engine Family EVV2.4D6JTC5 Engine Code JTC5:2

ECS (Special Features) EGR, DIP (TC) CID (Liter)-Type 145 (2.4) L-6

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equip. Test Weight	Ign. System Part No.	Fuel System Part No.	EGR Valve Part No.	Label Ident. Part No.
	See Section 20 Page 20.09.00-142						

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 - December 1983

Section 20.09.00.00 Parts List

Engine Family: EVV2.4 D6 JTC5

Fuel system

Fuel filter	Volvo P/N	1257200	Bosch P/N	0 450 133 015
Fuel pump				
manual transm	Volvo P/N	1328368	VW P/N	072 130 107 H
automatic "	Volvo P/N	1328369	VW P/N	072 130 107 J
Fuel injector				
assembly	Volvo P/N	1328209	Bosch P/N	0 432 217 109
spring holder	Volvo P/N	N/A	Bosch P/N	KCA 30S 36/4
injector nozzle	Volvo P/N	N/A	Bosch P/N	DN 0 SD 1930

Turbocharger

Assembly	Volvo P/N	1328179	Garret P/N	466088-1
Turbine	Volvo P/N	1328181	Garret P/N	409853-18
Compressor housing	Volvo P/N	1328152	Garret P/N	430730-1
Turbine housing with wastegate	Volvo P/N	1328193	Garret P/N	410224-13

Crankcase emission control system

Back pressure valve	Volvo P/N	1328120	VV P/N	0 761 291 01A
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Other

Glow plug	Volvo P/N	1257889	Bosch P/N	0 250 201 004 or
	or			0 250 201 015
	Volvo P/N	1257888	Beru P/N	0 100 221 105

Cont. Part                      Section 20.09.00.00

Engine Family : EVV2 4D6JTC5

Emission Control System

EGR-valve	Volvo P/N: 1 328 051
EGR-control unit	Volvo P/N: 1 257 971
Solenoid valve	Volvo P/N: 1 332 347
Thermo Valve	Volvo P/N: 1 257 981
Time Relay	Volvo P/N: 1 348 294

Section 08.13.00      Vehicle Road Load

Engine family: EVV2.4 D6 JTF8

<u>Model</u>	<u>Test weight lbs</u>	<u>Tires</u>	<u>A/C</u>	<u>Coast down time</u>	<u>Dyno HP</u>
760 GLE	3500	Pirelli P8 185/65 R15	Yes	14.7	9.5