State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-54
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 1990 model-year Volvo Car Corporation emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family: LVV2.3V5FE7X Displacement: 2.3 Liters (141 Inches^3)

Equipped with the following exhaust emission control systems:

Exhaust Gas Recirculation
Heated Oxygen Sensor
Three-Way Catalyst
Multipoint Electronic Fuel Injection
On-Board Diagnostic System

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.41	7.0	0.4

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

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.27	3.0	0.3

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 Code of Regulations, 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 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Health and Safety Code Section 43205).

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 5th day of September, 1989.

K. D. Drachand, Chief
Mobile Source Division

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Manufacturer Volvo Car Corp Eng. Family LVV2.3V5FE7X

Pass Cars X Lt-Duty Trucks___ Med-Duty Vehicles___ Gas X Diesel___

Eng. Type L-4 Liter (CID) 2.3 (141 in^3) Evap. Family E3

Emission Control Sys. (Use SAE Abbrv.) MPI, HO2S, TWC, EGR, OBD

Engine: Front X Mid.___ Rear___ Drive: FWD___ RWD X 4WD-FT___ 4WD-PT___

Eng. Code/ (Cert Std.)	Veh. Models (If Coded see Attachmt.)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	RLHP or DPA	Ign. Sys. (ECU/PROM) Part No.	EGR Syst. Part No.	Catalyst Part No.
FE7X:1	740 Turbo	M5			0227400149	72040111 or 72040121	3517392
	Sedan	M46	3375	9.9			
	Wagon		3500	10.0			
FE7X:2	740 Turbo	A4			"	72040311 or 72040321	"
	Sedan	AW71	3375	9.9			
	Wagon		3500	10.0			
	760 Turbo	A4			"	72040311 or 72040321	
	Sedan	AW71	3625	8.9			3517393 (sedan)
	Wagon		3625	9.0			3517392 (wagon)

Date of Issue:_____ Revisions: