

E. L. Galt

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-10
Relating to Certification of New Motor Vehicles

AB VOLVO, CAR DIVISION

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 AB Volvo, Car Division exhaust emission control systems are certified as described below for 1979 model-year gasoline-powered passenger cars.

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
4CL	130	Three Way Catalyst (Mechanical Fuel Injection)

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

The following are the certification emission values to be listed on the window decal required by California Assembly-Line Test Procedures for 1979 model-year vehicles:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
4CL	0.33	4.1	0.2

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 except Motorcycles".

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.

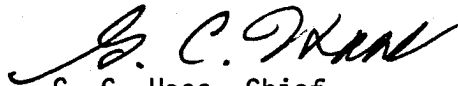
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Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

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 20 day of September, 1978.



G. C. Hass, Chief
Vehicle Emissions Control Division

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Volvo Executive Order No. A-18-10 Page 1
 Engine Family 4CL Engine (CID) 130

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 EI-Electronic Ignition
 ESAC
 VA-Vacuum Advance
 VR-Vacuum Retard

Exhaust Emissions Control System

AI-Air Injection
 CCAV-Comb. Chamber Air Valve
 EFI-Electronic Fuel Injection
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification

OC-Oxidation Catalyst
 PAI-Pulse Air Injection
 TC-Turbo Charged
 TR-Thermal Reactor
 TWC-Three Way Catalyst
 (Feedback Control)
 WOC-Warm-up Oxidation
 Catalyst

Fuel System

EFI, MFI
 nV-nVenturi Carburetor
 VV-Variable Venturi

ESAC-Electronic Spark Advance
 Control
 MFI-Mechanical Fuel Injection

Engine Code

Model

4CL:1	242 Sedan
4CL:2	244 Sedan
	245 Station Wagon

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A 18 - 10

Passenger Cars Light-Duty Trucks Medium-Duty Vehicles

Manufacturer Volvo Page 2

Engine Family 4CL Engine (CID) ~~140~~ 130 Engine Code _____

Emission Control System TWC, MFI + 10% (A/C) Yes No _____

Eng. Code	Vehicle Models (If Coded see attachment)	Trans.	Inertia Weight Class (Axle Ratio)*	Ign. Sys. CA,VA,EI Distributor Part No.	Fuel System MFI Part No.	EGR Valve	Tune-up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
4CL:1 4CL:2	242	M4 M5 A3	3000	Bosch 0237002 39	Fuel Metering Unit: Bosch 0438100032		1) 8° + 2° BTDC @ 750 + 50 RPM vacuum disconnected Trans. neutral A/C off 2) 2.0 + 0.5/-1.0 % CO disconnect oxygen sensor, sample upstream of catalyst at tap. 3) 900 RPM
	244	M4					
	244	M4 M5 A3	3500		Air Metering Unit: Bosch 0438120078		
	245	M4 M5 A3			Air/Fuel Metering Unit: Volvo 1266347		

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, equipment and inertia weight class.

*Axle ratio is that of medium duty certification vehicle.

Date of Issue -