State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-70 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 Volvo Car Corporation 1993 model-year exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: PVV2.3V5FP88 Displacement: 2.3 Liters (141 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Heated Oxygen Sensor
Multiport Fuel Injection
Exhaust Gas Recirculation
Three Way Catalytic Converter
Pulsed Secondary Air Injection

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

The certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>
50,000	0.25	3.4	0.4
100,000	0.31	4.2	N/A

The certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u> 0.1
50,000	0.11	1.4	
100,000	0.12	1.5	N/A

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, and with the California Inspection and Maintenance emission standards in place at the time of certification, 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 listed vehicle models also comply with the requirements of 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 (Title 13, California Code of Regulations, Section 2035 et seq.).

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 <u>36</u> day

Domail

day of August. 1992.

R. B. Summerfield Assistant Division Chief Mobile Source Division

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Manufacture	r Volvo Car Corp		Engine I	Family	PVV2.3V5FP88	
Passenger C	ar <u>X (</u> PC) Light-	-Duty Truck	_(T1/T2)	Med i um	-Duty Vehicle	(M1/M2/M3/M4/M5)
Stds Type:]	<u>ier 1 (Tier 0/</u>	L,AB965,TLEY,L	EV,ULEY)	Ve	h.Type (FFV,HEV	(type A/B/C)):
Fuel Type:(Gasoline	Ev	aporativ	e Family	: <u></u>	
Engine Cont	rig. <u>I-4</u> L	iter (CID) 2.3	(141			
Engine: Fro	ont_XMid	Rear	Drive:	FWD	RWD_X 4WD-F	T 4WD-PT
Exhaust EC: (use at	S & Special Feature bbreviations per S	es (incl. CARB AE 1930 MAY91)	, MFI, e	tc.) <u>MF</u>]	I, PAIR, HO2S, T	WC, EGR
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Er ne Code (·t. Std.	Vehicle Models.) (if coded see l attachment)	Trans. Type A-automatic M-manual	ETW	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR Catalyst System Part No. Part No.
FP88:2	240	A		()	0227400196 VCC P/N 3507348)	72183500 3501957
	Sedan	AW70	3375	9.1	, , , , , , , , , , , , , , , , , , , ,	
	Wagon	AW70	3500	10.0		
FP88:4	940	Α		/		72183500 1389966
	Sedan	AW71L	3500	6.7	/CC P/N 3507348)	
	Wagon	ΔW71I	3625	7.4		