Fuel

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-18-103-1
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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below:

Model Year: 2001

Vehicle Type: Passenger Car

Exhaust Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Test Group: 1VVXV2.43L5T

Engine Displacements: 2.3 and 2.4 Liters

Evaporative Family (Evap): 1. 1VVXR0133AAA
2. 1VVXR0133C70

Special Features and Exhaust Emission Control Systems:

Sequential Multiport Fuel Injection
Three Way Catalytic Converter
Heated Oxygen Sensors (two)
Turbocharger
Charge Air Cooler

Models Covered: Volvo
2.3 Liters / Evap 1: V70 T5 Wagon, S60 Sedan
2.3 Liters / Evap 2: C70 Coupe, C70 Convertible
2.4 Liters / Evap 1: V70 AWD Wagon, V70 2.4T Wagon, S60 Sedan
2.4 Liters / Evap 2: C70 Coupe, C70 Convertible

The exhaust certification emission levels and standards, in grams per mile, of non-methane organic gases (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) for the listed vehicle models are as follows. The NMOG exhaust certification emission levels include application of the reactivity adjustment factor (RAF) as specified.

The evaporative hydrocarbon (HC) certification emission levels and standards for three-day diurnal plus hot soak (3D) and two-day diurnal plus hot soak (2D) in grams per test, running loss (RL) in grams per mile, and onboard refueling vapor recovery (ORVR) in grams per gallon of fuel dispensed, for the listed vehicle models are as follows:

	Type of Emissions	Miles	Certification Level		Certification Standards
EXHAUST @ NMOG RAF = 0.94					
.....	NMOG fleet average		0.075 (projected)		0.070
	NMOG	50,000	0.039		0.075
	NMOG	100,000	0.043		0.090
	CO	50,000	1.2		3.4
	CO	100,000	1.4		4.2
	NOx	50,000	0.1		0.2
	NOx	100,000	0.1		0.3
	NOx (highway)	50,000	0.01		0.3
	NOx (highway)	100,000	0.01		0.4
	HCHO	50,000	0.001		0.015
.....	HCHO	100,000	0.001		0.018
.....	CO (20°F)	50,000	3.6		10.0
	NMOG (50°F)	4,000	0.067		0.150
	CO (50°F)	4,000	1.3		3.4
	NOx (50°F)	4,000	0.02		0.2
	HCHO (50°F)	4,000	0.001		0.030
EVAPORATIVE			Evap 1	Evap 2	Evap 1 & 2
	HC-2D	100,000	1.8	0.9	2.5
	HC-3D	100,000	0.9	0.9	2.0
	HC-RL	100,000	0.00	0.00	0.05
	HC-ORVR	100,000	0.001	0.03	0.20

BE IT FURTHER RESOLVED: That any debit in the manufacturer's NMOG fleet average compliance plan shall be equalized as required by the "California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That for the listed vehicle models, the manufacturer has attested to compliance with the following California emission regulations and requirements. Vehicles certified under this Executive Order shall conform to all applicable California emission regulations and requirements.

- Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks (Title 13, California Code of Regulations, Section 2235)

- Motor Vehicle Emission Control and Smog Index Label Specifications (Title 13, California Code of Regulations, Section 1965)

- Emission Control System Warranty (Title 13, California Code of Regulations, Sections 2035 et seq.)

- High-Altitude Requirements and California Inspection and Maintenance Emission Standards (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles)

The Bureau of Automotive Repair will be notified by copy of this order.

Executive Order A-18-103 dated March 16, 2000, is hereby superseded by Executive Order A-18-103-1.

Executed at El Monte, California this 10th day of July 2000.

R. B. Summerfield, Chief
Mobile Source Operations Division