

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-22-10
Relating to Certification of New Motor Vehicles

SAAB-SCANIA AKTIEBOLAG

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 Saab-Scania Aktiebolag exhaust emission control systems for 1978 model-year passenger cars are certified for the vehicles described below:

Engine Family: BSI20CA
Engine: 121.1 CID
Transmission: 4-Speed Manual
Exhaust Emission Control Systems: Fuel Injection, 3-Way Catalyst with Lambda Control, Turbocharged

Models and Engine Codes as listed in attachment.

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1978 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>
BSI20CA	0.22	2.9	0.9

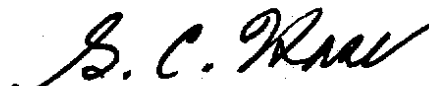
BE IT FURTHER RESOLVED: That the above models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (13 California Administrative Code, Section 2290) for the aforementioned model year, or have been granted a temporary exemption from the aforementioned "Specifications" by Executive Order AA-22-1 series.

BE IT FURTHER RESOLVED: That the above models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-powered Motor Vehicles except Motorcycles".

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

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 21 day of October, 1977.



G. C. Hass, Chief
Vehicle Emissions Control Division

STAFF USE ONLY

1978 MODEL-YEAR CERTIFICATION APPLICATION CHECK OFF SHEET

PASSENGER CARS

LIGHT-DUTY TRUCKS

MEDIUM-DUTY VEHICLES

Manufacturer Scab-Scania

Marketing Agreement with another manufacturer: _____

- | | |
|---|---|
| <p>1. Part I Submittal
 a. Date Received <u>6 May 77</u>
 b. Date ARB Response _____
 2. Authorized Signature <u>al</u>
 3. Vehicle Description <u>al</u>
 4. Exh. Emis. Control Sys. Descr. <u>al</u>
 5. Engine Parameters <u>al</u>
 6. Ignition & Fuel System Descr. <u>al</u>
 7. Test Route, Equipment, and Fuel Description <u>al</u>
 8. Projected Calif. Sales Data <u>al</u>
 9. Test Fleet Composition:
 Date ARB Approved <u>al</u>
 a. Durability Fleet <u>June 23, 77</u>
 b. Emission Data Fleet <u>June 23, 77</u>
 10. Carry-over Vehicles?
 No Dur. No Emis. <u>al</u>
 11. Fill pipe Specification Submission <u>al</u> <u>AA-22-1</u></p> | <p>1. Part II Submittal
 a. Date Received <u>22 Sept 77</u>
 2. Exh. Durability Test Data
 a. Durability Fleet Maint. <u>al</u>
 3. Exh. Emission Test Data
 a. Emis. Data Fleet Maint. <u>al</u>
 4. Confirm. Test Lab. <u>EPA</u> <u>al</u>
 5. Add't'l. 91 RON Statement <u>al</u>
 6. Maint., Warr., & Train Descr. <u>al</u>
 7. Statement on General Stds.:
 Safety, Increase in Emiss. <u>al</u>
 8. Statement on Mtg. All Reg. <u>al</u>
 9. Statement that Test & Prod. Vehicles are Identical <u>al</u>
 10. Ignition & Fuel System Part No. & Calibration <u>al</u>
 11. Aux. Exh. Emis. Cont. Devices Part No. & Calibration <u>al</u>
 12. Tune-up Label <u>al</u>
 13. Evap. System(s) Evaluated <u>al</u>
 14. EPA Certificate <u>al</u></p> |
|---|---|

Engine Family BSIZOCA

Exhaust Emission Control System** TWC w/2 Catal
 Projected Exhaust Emissions at 50,000 Miles (grams/miles)***

Engine Size (CID)	Trans.	Inertia Weight Class	Calibration	Vehicle I.D. Number	HC 0.41(0.9)*	CO 9.0(17)*	NOx 1.5(2.0)*
121.1	M4	3000		99-951	0.25	2.9	0.80
					0.22	2.9	0.9

evap dF = 0

*** Includes a MCCF value of 0.89 and D.F. values of 1.000 1.000 1.150.
 * Numbers in Parenthesis refer to light-duty trucks and medium-duty vehicles except NOx is 2.3 for medium-duty vehicles.

Executive Order No. A- 22-10

Application Processed by al Smith Date _____

Reviewed by Robert P. Weis Date 10/21/77

**Abbreviations Exhaust Emission Control System

- | | |
|---------------------------------|---|
| AI - Air Injection | ESAC - Electronic Spark Advance Control |
| CAB - Chamber Air Bleed | FI - Fuel Injection |
| DD - Dual Displacement | OC - Oxidation Catalyst |
| EFE - Early Fuel Evaporation | PAI - Pulse Air Injection |
| EFI - Electronic Fuel Injection | RC - Reduction Catalyst |
| EGR - Exhaust Gas Recirculation | TC - Turbocharged |
| EM - Engine Modifications | TR - Thermal Reactor |

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Saab-Scania Executive Order No. A-22-10 Page 1

Engine Family BSI20CA Engine (CID) 121.1

ABBREVIATIONS

<u>Distributor</u>	<u>Exhaust Emissions Control System</u>	
C-Centrifugal Advance	AI-Air Injection	OC-Oxidation Catalyst
V-Vacuum Advance	CAI-Catalyst Air Injection	PAI-Pulse Air Injection
VR-Vacuum Retard	CAB-Chamber Air Bleed	RC-Reduction Catalyst
HEI-High Energy Ignition	DD-Dual Displacement	TC-Turbo Charged
EI-Electronic Ignition	EFI-Electronic Fuel Injection	TR-Thermal Reactor
<u>Fuel System</u>	EGR-Exhaust Gas Recirculation	TWC-Three Way Catalyst
EFI, FI	EM-Engine Modification	(Feedback Control)
nV-nVenturi Carburetor	EFE-Early Fuel Evaporation	<u>EGR Syst. Service</u>
VV-Variable Venturi	ESAC-Electronic Spark Advance	I-Inspect, repair/replace
	Control	as needed
	FI-Fuel Injection	R-Replace

Engine Code

P02

Model

EMS-3CKL
Saab 99
Hatchback

Transmission

M4

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars Light-Duty Trucks Medium Duty Vehicles

Manufacturer Saab-Scania Executive Order No. A-22-10 Page 2

Engine Family BSI 20CA Engine (CID) 121.1 Engine Code _____

Emission Control System TWC, FI with λ control +10%(A/C) Yes No

Eng. Code	Vehicle Models (If Coded see attachment)	Trans	Inertia Weight Class	Distributor Type CV Mfgr. Part Number	Fuel System Type FI Mfgr. Part Number	EGR System None Part No. Service	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
BSI 20CA (P02)	Saab 99 Turbo	M4	3000	Bosch 0237005001	Bosch Fuel distributor 0438 100 032 Air Flow sensor 0438 120 073 Warm-up regulator 0438 140 051		(1) 20° BTDC @ 2000 RPM (2) 0.75% + 0.25/-0.50 CO with oxygen sensor and evap purge lines disconnected (3) 875 ± 50 in neutral

Comments: No models have special road load HP settings.
See page 1 for abbreviations and model codes.

Date of Issue Revisions: