

*File*

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-22-85-A  
Relating to Certification of New Motor Vehicles

SAAB AUTOMOBILE AB

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 1999 model-year Saab Automobile AB exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

*should be 2*

*9m  
9-4-03*

Engine Family: XSAXV02.3TE1 Displacement: 2.3 Liters (141 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

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

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:

| <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Carbon Monoxide (20°F)</u> |
|--------------|---------------------------------|------------------------|------------------------|-------------------------------|
| 50,000       | 0.25                            | 3.4                    | 0.4                    | 10.0                          |
| 100,000      | 0.31                            | 4.2                    | 0.6                    | n/a                           |

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

| <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Carbon Monoxide (20°F)</u> |
|--------------|---------------------------------|------------------------|------------------------|-------------------------------|
| 50,000       | 0.11                            | 2.0                    | 0.2                    | 4.9                           |
| 100,000      | 0.11                            | 2.2                    | 0.2                    | n/a                           |

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

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 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 the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

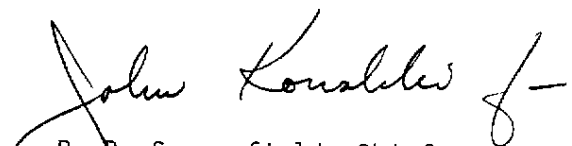
BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for 1998 and Subsequent Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, and the listed vehicle models comply with those standards.

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 11<sup>th</sup> day of August 1998.

  
R. B. Summerfield, Chief  
Mobile Source Operations Division

1999 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1  
 PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: SAAB Automobile AB Exh Eng Fam: X5AXV02.3TE1 Evap Fam: X5AXR00120YE1  
 All Engine Codes in Engine Family: CA 49S 50S X AB965, ORVR: YES X NO       
 Exh Std: CA Tier-1 X TLEV      LEV      ULEV      SULEV     , US EPA Tier-1 X  
 Veh Class(es): PC X LDT1      LDT2      MDV1      MDV2      MDV3      MDV4      MDV5       
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)  
 Fuel Type(s): Dedicated X Flex-Fuel      Dual-Fuel      Bi-Fuel      Gasoline X Diesel       
                   CNG      LNG      LPG      M85      Other (specify)       
 Exh Emiss Test Fuel(s): Indo X CBG      CNG      LPG      M85      Other (specify)       
                                   Diesel: 13 CCR 2282      40 CFR 86.113-90      40 CFR 86.113-94       
 Evaporative Emission Test Procedure: California X Federal       
 Service Accum: Std AMA X Mod AMA      Mfr ADP      Other (specify)       
 NMOG Test Procedure: N/A X Std      Equip      R/L Test Proc: SHED      Pt Source X  
 Engine Configuration: I4 Displacement: 2.3 /      Liters 141 /      Cubic Inches  
 Valves per Cylinder: 4 Rated HP: 170 @ 5500 RPM  
 Engine: Front X Mid      Rear      Drive: FWD X RWD      4WD-FT      4WD-PT       
 Exhaust ECS (e.g., MFI, EGR, TC, CAC): TWC, HO2S(2), SFI, TC, CAC  
 (use abbreviations per SAE J1930 JUN93)

| Engine Code<br>(also list<br>CA/49ST/50ST) | Vehicle Models<br>(if coded see<br>attachment) | Trans.<br>(M5, A4<br>etc.) | ETW<br>or<br>Test Wt. | DPA<br>or<br>RLHP | Ignition<br>(ECM/PCM)<br>Part No. | EGR<br>System<br>Part No. | Catalytic<br>Converter<br>Part No. |
|--|--|----------------------------|-----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|
| 8235E5<br>(50ST)                           | 9-5 SEDAN<br>9-5 SE "                          | M5<br>or<br>L4             | 3875                  | 7.3               | 45 70 255<br>"                    | N/A                       | 48 98 268                          |