

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-37-28  
Relating to Certification of New Motor Vehicles

LOTUS CARS LIMITED

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 1998 model-year Lotus Cars Limited exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: WLTXV03.5918 Displacement: 3.5 Liters (214 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Sequential Multiport Fuel Injection
- Secondary Air Injection
- Dual Heated Oxygen Sensors (two)
- Dual Three Way Catalytic Converters
- Dual Turbochargers
- Exhaust Gas Recirculation

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       | 0.10                            | 0.9                    | 0.3                    | 3.8                           |
| 100,000      | 0.13                            | 1.3                    | 0.3                    | n/a                           |

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 vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 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 shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", pursuant to provisions in said standards and test procedures applicable to ultra-small volume manufacturers.

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 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".

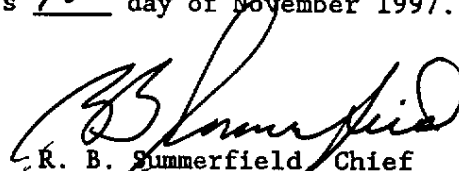
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model- Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned 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 10th day of November 1997.

  
R. B. Summerfield Chief  
Mobile Source Operations Division

**1998 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES**

Manufacturer: Lotus Exh Eng Fam: WLTXV03.5918 Evap Fam: WLTXE0058C07  
 All Eng Codes in Eng Fam: CA 49S 50S  AB965 ORVR: YES NO:   
 Exh Std: CA Tier-1  TLEV LEV ULEV SULEV US EPA Tier-1   
 Veh Class(es): PC  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 Flex-Fuel Dual-Fuel Bi-Fuel Gasoline  Diesel CNG LNG LPG M85 Other (specify) \_\_\_\_\_  
 Exh Emiss Test Fuel(s): Indo  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 : Waiver for 98, USVMs Federal   
 Service Accum: Std AMA Mod AMA Mfr ADP Other (specify) Ass dfs < 300 units  
 NMOG Test Procedure: N/A  Std Equiv R/L Test Proc: SHED Pt Source \_\_\_\_\_  
 Engine Configuration: 90° V Displacement: 3.5 Liters, 214 Cubic Inches  
 Valves per Cylinder: 4 **Rated HP: 352.5 @ 6500 RPM**  
 Engine: Front Mid  Rear Drive: FWD RWD  4WD-FT 4WD-PT \_\_\_\_\_  
 Exhaust ECS (e.g., MFI, EGR, TC, CAC): 2TWC, 2HO2S (2), SFI, 2TC, AIR, EGR  
 (use abbreviations per SAE J1930 JUN93)

| Engine Code<br>(also list<br>A/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. |
|---|--|---------------------------|-----------------------|-------------------|-----------------------------------|---------------------------|------------------------------------|
| 50ST<br>LL918-3.5                         | Lotus Esprit V8                                | M5                        | 3,375 lbs             | 8.5               | 0221 503,<br>001                  | 6241                      | L/H<br>L0950002<br>R/H<br>L0950003 |