File

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:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
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:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
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 (also list A/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. (M5,A4 etc.)	ETW or Test Wt.	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
50ST LL918-3.5	Lotus Esprit V8	M5	3,375 lbs	8.5	0221 503, 001	6241	L/H L0950002 R/H L0950003