

File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-37-29
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 1999 model-year Lotus Cars Limited exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: XLTXV03.5918 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	0.08	1.4	0.1	3.8
100,000	0.10	2.0	0.1	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 31st day of December 1998.

Raphael Summerfield

for R. B. Summerfield, Chief
 Mobile Source Operations Division

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

Manufacturer: Lotus Exh Eng Fam: XLTXV03.5918 Evap Fam: XLTXE0124EVS
 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: Full Evap California : 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 CA/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
						Date	Revisions: