

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-277-15  
Relating to Certification of New Motor Vehicles

ROVER GROUP 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 1996 model-year Rover Group Limited exhaust emission control systems are certified as described below for medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: TLR4.658GFFK Displacement: 3.95 Liters (241 Cubic Inches)  
4.55 Liters (278 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Sequential Multiport Fuel Injection  
Dual Three Way Catalytic Converters  
Dual Heated Oxygen Sensors (Two)

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>Test Weight (lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	120,000	0.46	6.4	0.98	n/a

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

<u>Test Weight (lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
3751-5750	50,000	0.28	2.8	0.1	7.7
	120,000	0.34	4.1	0.17	n/a

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 small-volume manufacturers.

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

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)(6.1) ("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 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 5<sup>th</sup> day of March 1996.

  
R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

**1996 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES**
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Manufacturer : Rover Group Ltd Exh Eng Fam : TLR4.658GFFK Evap Fam : TLR1109AYPBD  
 All Eng Codes in Eng Fam : CA  49S 50S AB965  
 Exh Std : CA Tier-1  TLEV      LEV      ULEV      ZEV     ; US EPA Tier-1   
 Evap Std : 50K  Useful Life with R/L      In-Use Exh Std : Full In Use      Alt In Use   
 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, NDV2, MDV3, MDV 4)  
 Fuel Type (s) : Dedicated  Flex-Fuel :      Dual-Fuel      Bi-Fuel      Gasoline      Diesel   
                   CNG      LNG      LPG      M85      Other (specify)       
 Emiss Test Fuel (s) Indo  Ph2      CNG      LPG      M85      Other (specify)       
                   Diesel : 13 CCR 2282      40 CFR 86.113-90      40 CFR 86.113-94       
 Service Accum : Std AMA  Mod AMA      Mfr ADP      Other (specify)       
 NMOG Test Procedure : N/A  Std      Equip      R/L Test Proc : SHED      Pt Source       
 Hybrid : Type A      B      C     , APU Cycle (e.g. Otto, Diesel, Turbine) :       
 Engine Configuration : V8 Displacement : 4.55/3.95 Liters 278/241 Cubic Inches  
 Valves per Cylinder : 2 Rated HP : 222/188 @ 4750 RPM  
 Engine : Front  Mid      Rear      Drive : FWD      RWD      4WD-FT  4WD-PT       
 Exhaust ECS (e.g., MFI, EGR, TC, CAC) : SFI/2TWC/2HO2S (2)  
 (use abbreviations per SAE J1930 SEP91)

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.
4.6HC - 96B (CAL)	Range Rover	A4	5500	13.9	AMR 5688	N/A	ESR 3738
4.0HC - 95H (CAL)	Range Rover	A4	5500	13.9	AMR 5688	N/A	ESR 3738

Date Issued : 10.9.95

Revisions : 1.8.96

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 All Eng Codes in Eng Fam : CA  49S 50S AB965  
 Exh Std : CA Tier-1  TLEV      LEV      ULEV      ZEV     ; US EPA Tier-1   
 Evap Std : 50K  Useful Life with R/L      In-Use Exh Std : Full In Use      Alt In Use   
 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, NDV2, MDV3, MDV 4)  
 Fuel Type (s) : Dedicated  Flex-Fuel :      Dual-Fuel      Bi-Fuel      Gasoline       Diesel       
                   CNG      LNG      LPG      M85      Other (specify)       
 Emiss Test Fuel (s) Indo  Ph2      CNG      LPG      M85      Other (specify)       
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4.0HC - 95J (CAL)	Discovery	A4	5250	14.3	ERR 6759	N/A	ESR 3844 ESR 3845
4.0HC - 95K (CAL)	Discovery	M5	5250	13.4	ERR 6759	N/A	ESR 3844 ESR 3845