

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-220-44-1-A  
Relating to Certification of New Motor Vehicles

JAGUAR CARS, LTD.

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 Jaguar Cars, Ltd. exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TJC4.0VJGKGK Displacement: 4.0 Liters (243 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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	0.17	1.4	0.2	7.6
100,000	0.23	1.6	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 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).

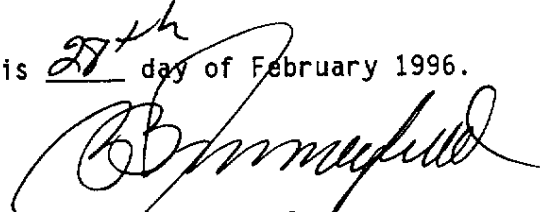
BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.1) ("Malfunction and Diagnostic System Requirements--1994 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 27<sup>th</sup> day of February 1996.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

17.06.01.05 cont'd

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**1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS & MEDIUM-DUTY VEHICLES**

Manufacturer: Jaguar Cars Ltd Exh Eng Fam: TJC4.0VJGK GK Evap Fam: TJC1284AYMEO  
 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 Muti-Class Eng Fam: N/A  
 Fuel Type(s): Dedicated  Flex-Fuel  Dual-Fuel  Bi-Fuel  Gasoline   
 Diesel  M85  CNG  LNG  LPG  Other \_\_\_\_\_  
 Emission Test Fuel(s): Ind  Ph2  M85  CNG  LPG  Other \_\_\_\_\_  
 Diesel: 13 CRR 2282  40CFR86.113-90  40CFR86.113-94   
 Service Accum: Std AMA  Mod AMA  Mfr ADP  Other   
 NMOG Test Procedure: N/A  Std  Equiv  R/L Test Proc: SHED  Pt Source   
 Hybrid: Type A  B  C  , APU Cycle \_\_\_\_\_  
 Engine Configuration: L6 Displacement: 4.0 Liters 243 Cubic Inches  
 Valves per Cylinder: 4 Rated HP: XJ6-245 @ 4800 RPM  
 Engine: Front  Mid  Rear  Drive: FWD  RWD  4WD-FT  4WD-PT   
 Exhaust ECS: PAIR:EGR:2HO2S(2):2WUTWC:2TWC:SFI

Engine Code	Vehicle Models	Trans A- Auto M- Man	ETW	DPA	ECM (ICM) Part No	EGR System Part No	Catalyst Part No.
4.OHFC -96 (50ST)	XJ6	A	4250	7.0	LNA1410VF	LHE1550AB	D/P:NCC U/F:NDB
4.OHFC -96 (50ST)	Vanden Plas	A	4500	7.0	LNA1410VF	LHE1550AB	D/P:NCC U/F:NDB

New ECM calibration and enhanced evaporative emissions control introduced by R/C #4.0-96/5. See page 21-6 for description of the change.

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.06.01.06 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS & MEDIUM-DUTY VEHICLES

Manufacturer: Jaguar Cars Ltd Exh Eng Fam: TJC4.0VJGK GK Evap Fam: TJC1284AYMEO

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 Muti-Class Eng Fam: N/A

Fuel Type(s): Dedicated  Flex-Fuel  Dual-Fuel  Bi-Fuel  Gasoline   
Diesel  M85  CNG  LNG  LPG  Other

Emission Test Fuel(s): Ind  Ph2  M85  CNG  LPG  Other   
Diesel: 13 CRR 2282  40CFR86.113-90  40CFR86.113-94

Service Accum: Std AMA  Mod AMA  Mfr ADP  Other

NMOG Test Procedure: N/A  Std  Equip  R/L Test Proc: SHED  Pt Source

Hybrid: Type A  B  C  , APU Cycle

Engine Configuration: L6 Displacement: 4.0 Liters 243 Cubic Inches

Valves per Cylinder: 4 Rated HP: XJ6-245 @ 4800 RPM

Engine: Front  Mid  Rear  Drive: FWD  RWD  4WD-FT  4WD-PT

Exhaust ECS: XJ6- AIR:EGR:2HO2S(2):2WUTWC:2TWC:SFI

Engine Code	Vehicle Models	Trans A- Auto M- Man	ETW	DPA	ECM (ICM) Part No	EGR System Part No	Catalyst Part No.
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4.0HFC -96 (50ST)	XJ6	A	4250	7.0	LNA1410VG	LHE1550AB	D/P:NCC U/F:NDB
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Revised evaporative system leak check calibration introduced by R/C #4.0-96/6. See page 21-7 for description of the change.