

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-220-41
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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1995 model-year Jaguar Cars, Ltd. exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: SJC4.0VJGFEK Displacement: 4.0 Liters (243 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Warm-Up Three Way Catalytic Converter
- Three Way Catalytic Converter
- Dual Heated Oxygen Sensors (two)
- Exhaust Gas Recirculation
- Secondary Air Injection
- Sequential Multiport Fuel Injection
- On-Board Diagnostic II

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>
50,000	0.25	3.4	0.4
100,000	0.31	4.2	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>
50,000	0.14	0.9	0.2
100,000	0.19	1.0	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth 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 under the submitted compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, 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."

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 21st day of July, 1994.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Jaguar Cars Ltd Engine Family: SJC4.0VJGFEX
 Evap Std: 50K X Full Useful Life with R/L _ Evap Family: RJC1142AYM00
 Exh Std: Tier-0 _ Tier-1 X TLEV _ LEV _ ULEV _ ZEV _; EPA Tier-0 _ Tier-1 X
 Veh Class(es): PC X LDT1 _ LDT2 _ MDV1 _ MDV2 _ MDV3 _ MDV4 _ MDV5 _
 Single Cert Std for Muti-Class Eng Fam: N/A
 Exh Cert Fuel(s): Ind X Ph2 _ Diesel: 13 CRR 2282 _ or 40CFR86.113-90 _ or -94 _
 M85 _ CNG _ LPG _ Other _____
 Fuel Type(s): Dedicated X Flex-Fuel _ Dual-Fuel _ Gasoline X Diesel _ M85 _
 CNG _ LNG _ LPG _ Other _____
 Hybrid: Type A _ B _ C _ , APU Cycle Otto
 Engine Configuration: L6 Displacement: 4.0 Liters 243 Cubic Inches
 Engine: Front X Mid _ Rear _ Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _
 Exhaust ECS & Special Features: AIR:EGR:2HO2S(2):WUTWC:TWC:SFI:OBD2

Engine Code	Vehicle Models	Trans A- Auto M- Man	ETW	DPA	ECM (ICM) Part No	EGR System Part No	Catalyst Part No.
	XJS						
4.OHFC -95S (50ST)	Coupe	A	4000	7.3	LHE1410AE (Issue 1)	DBC 10500 LHE1550AA	D/P:NCA U/F:BDD
	Convertible	A	4250	7.3	LHE1410AE (Issue 1)	DBC 10500 LHE1550AA	D/P:NCA U/F:BDD

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.07.01.02 1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Jaguar Cars LtdEngine Family: SJC4.OVJGFEKEvap Std: 50K Full Useful Life with R/L Evap Family: RJC1142AYM00Exh Std: Tier-0 Tier-1 TLEV LEV ULEV ZEV ; EPA Tier-0 Tier-1 Veh Class(es): PC LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5 Single Cert Std for Muti-Class Eng Fam: N/AExh Cert Fuel(s): Ind Ph2 Diesel: 13 CRR 2282 or 40CFR86.113-90 or -94
M85 CNG LPG Other Fuel Type(s): Dedicated Flex-Fuel Dual-Fuel Gasoline Diesel M85
CNG LNG LPG Other Hybrid: Type A B C , APU Cycle OttoEngine Configuration: L6 Displacement: 4.0 Liters 243 Cubic InchesEngine: Front Mid Rear Drive: FWD RWD 4WD-FT 4WD-PT Exhaust ECS & Special Features: EAIR:EGR:2HO2S(2): WUTWC: TWC:SFI:OBD2

Engine Code	Vehicle Models	Trans A- Auto M- Man	ETW	DPA	ECM (ICM) Part No	EGR System Part No	Catalyst Part No.
4.OHFC -95 (50ST)	XJ6 Vanden Plas*	A	4250	7.0	LNA1410AE (issue 2) LNA1410AF	DBC 10500	D/P:NCA U/F:NCD

*The Vanden Plas differs from the XJ6 only with respect to the level of internal and external trim. The off-take of this model is less than 33% of the total carline sales.

New model introduced into engine family by
Running Change #4.0-95/2

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.07.01.11 1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Jaguar Cars Ltd

Engine Family: SJC4.0VJGFEK

Evap Std: 50K X Full Useful Life with R/L Evap Family: RJC1142AYM00

Exh Std: Tier-0 Tier-1 X TLEV LEV ULEV ZEV ; EPA Tier-0 Tier-1 X

Veh Class(es): PC X LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5

Single Cert Std for Muti-Class Eng Fam: N/A

Exh Cert Fuel(s): Ind X Ph2 Diesel: 13 CRR 2282 or 40CFR86.113-90 or -94
 M85 CNG LPG Other

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

Hybrid: Type A B C , APU Cycle Otto

Engine Configuration: L6 Displacement: 4.0 Liters, 243 Cubic Inches

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

Exhaust ECS & Special Features: XJS-EAIR:EGR:2HO2S(2):2WUTWC:2WC:SFI

XJ6-EAIR:EGR:2HO2S(2):2WUTWC:2WC: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.OHFC -95S/1 (50ST)	XJS Coupe	A	4000	7.3	LHE1410AH	LHE1550AA	D/P:NCA U/F:BDD
	Convertible	A	4250	7.3	LHE1410AH	LHE1550AA	D/P:NCA U/F:BDD
4.OHFC -95 (50ST)	XJ6 Vanden Plas*	A	4250	7.0	LNA1410PA	LHE1550AA	D/P:NCA U/F:NCD

*The Vanden Plas differs from the XJ6 only with respect to the level of internal and external trim. The off-take of this model is less than 33% of the total carline sales.

Re-calibrated ECM introduced by Running Change #4.0-95/16. Part #LNA1410PA replaces LNA1410AH. See Page 21-17 for a full description of the change.