File

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:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
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:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
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

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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: 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						
4.0HFC -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 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: **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.
4.0HFC -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:TWC:SFI**
XJ6-**EAIR: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.
	XJS						
4.0HFC -95S/1 (50ST)	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
4.0HFC -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.