State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-220-39
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 1994 model-year Jaguar Cars, Ltd. exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: RJC4.0VHGFEK Displacement: 4.0 Liters (243 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Secondary Air Injection
Exhaust Gas Recirculation
Dual Warm-Up Three Way Catalytic Converters
Dual Three Way Catalytic Converters
Heated Oxygen Sensor
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:

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	0.21	1.2	0.2
100,000	0.28	1.3	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 on January 14, 1993, the Air Resources Board approved the repeal of the currently-effective requirement that each manufacturer certify a minimum of 80 percent of its projected sales of 1994 model-year California-certified passenger cars and light-duty trucks to the phase-in standards for non-methane hydrocarbons (NMHC), or the more stringent standards in section 1960.1(g)(2) of Title 13, California Code of Regulations. If the repeal of such requirement does not become effective by December 31, 1993, the manufacturer shall submit a plan for compliance with the requirement; passenger cars and light-duty trucks not meeting such phase-in or more stringent standards shall be certified only to the extent allowed under the requirement.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "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 listed vehicle models also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) 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 27th day of September, 1993.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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.07.01.01 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: **Jaguar Cars Ltd** Engine Family: **RJC4.0VHGFEK**

Passenger Car: X (PC)

Stds Type: **Tier 1**

Fuel Type: **Gasoline** Evaporative Family: **RJC1107AYM00**

Engine Configuration: I6 Liter (CID): **4.0 (243)**

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: **AIR:EGR:2WUTWC:HO2S:2TWC:MFI**

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No	EGR System Part No	Catalyst Part No.
4.0HFC-93	XJ6	A	4250	7.2	DBC12522	EBC2737	D/P: LCA U/F: LDA
	Vanden Plas	A	4250	7.2	DBC12522	EBC2737	D/P: LCA U/F: LDA

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.07.01.01 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: **Jaguar Cars Ltd** Engine Family: **RJC4.0VHGFEK**

Passenger Car: X (PC)

Stds Type: **Tier 1**

Fuel Type: **Gasoline** Evaporative Family: **RJC1107AYM00**

Engine Configuration: I6 Liter (CID): **4.0 (243)**

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: **AIR:EGR:2WUTWC:HO2S:2TWC:MFI**

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No	EGR System Part No	Catalyst Part No.
4.0HFC-93	XJ6 Vanden Plas*	A	4250	7.2	DBC12522	EBC2737	D/P: LCA U/F: LDA

*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 total carline sales.

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.07.01.01 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: **Jaguar Cars Ltd** Engine Family: **RJC4.0VHGFEK**

Passenger Car: **X (PC)**

Stds Type: **Tier 1**

Fuel Type: **Gasoline** Evaporative Family: **RJC1107AYM00**

Engine Configuration: I6 Liter (CID): **4.0 (243)**

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: **AIR:EGR:2WUTWC:HO2S:2TWC:MFI**

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No	EGR System Part No	Catalyst Part No.
4.0HFC-93	XJ6 Vanden Plas*	A	4250	7.8**	DBC12522	EBC2737	D/P: LCA U/F: LDA

*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 total carline sales.

**New wheel/tyre assembly, size 225/60ZR16, introduced by Running Change #4.0-94/7.

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.07.01.01 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: **Jaguar Cars Ltd** Engine Family: **RJC4.0VHGFEK**

Passenger Car: **X (PC)**

Stds Type: **Tier 1**

Fuel Type: **Gasoline** Evaporative Family: **RJC1107AYM00**

Engine Configuration: I6 Liter (CID): **4.0 (243)**

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: **AIR:EGR:2WUTWC:HO2S:2TWC:MFI**

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No	EGR System Part No	Catalyst Part No.
4.0HFC-93	XJ6 Vanden Plas*	A	4250	7.6	DBC12522	EBC2737	D/P: LCA U/F: LDA

*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 total carline sales.

New air flow meter introduced by Running Change #4.0-94/11. Part number DBC 12516 replaces DBC 10852 (see Page 21-13).

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.07.01.02 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: **Jaguar Cars Ltd** Engine Family: **RJC4.0VHGFEK**

Passenger Car: X (PC)

Stds Type: **Tier 1**

Fuel Type: **Gasoline** Evaporative Family: **RJC1091AYM00**

Engine Configuration: **I6** Liter (CID): **4.0 (243)**

Engine: Front X Mid _ Rear _

Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: **AIR:EGR:2WUTWC:HO2S:2TWC:MFI**

Engine Code	Vehicle Models	Trans Type A- Automatic M- Manual	ETW	DPA	ECM (ICM) Part No	EGR System Part No	Catalyst Part No.
	XJS						
4.0HFC -93S/1	Coupe	A	4000	8.0	DAC11502	EBC2737	D/P: ACA U/F: BDC
	Convertible	A	4250	8.0	DAC11502	EBC2737	D/P: ACA U/F: BDC

New air flow meter introduced by Running Change #4.0-94/11. Part number DBC 12516 replaces DBC 10852 (see Page 21-13).