State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-220-26
Relating to Certification of New Motor Vehicles

JAGUAR CARS 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year Jaguar Cars Limited exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)
KJR5.3V5FMF4	5.3	(326)	Air Injection-Pump 2-Dual Warm-Up Three-Way Catalysts Dual Three-Way Catalysts (Two) Dual Heated Oxygen Sensors (Electronic Port Fuel Injection) On-Board Diagnostics (Exempted)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.41	7.0	0.4

The following are the certification emission values for this engine family:

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.19	1.4	0.1

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Code of Regulations, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards 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 Tune-Up Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) 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 regulations (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 5th day of January, 1989.

K. D. Drachand, Chief
Mobile Source Division

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer Jaguar Cars Ltd Engine Family KJR5.3V5FMF4

Evaporative Family XJFI Engine Type V12

Liters (CID) 5.3 (326)

Abbreviations

Ignition System

ECU - Electronic Control Unit

ESAC - Electronic Spark Advance Control

Exhaust Emissions Control System

AIP-Air Injection Pump
2-WUTWC(2) - Dual Twin Warm-Up Three-Way Catalysts
2-HOS - Dual Heated Oxygen Sensors

Fuel System

EPFI 2-HOS

Special Features

EPFI - Electronic Port Fuel Injection

MODEL : Jaguar XJ-S V12 Coupe and Convertible

Engine: Front x Mid. ____ Rear ____

Drive: FWD ____ RWD x 4WD Full Time ____ 4WD Part Time ____

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Passenger Cars x Light-Duty Trucks __ Medium-Duty Vehicles _ Gas _ Diesel ____

Manufacturer Jaguar Cars Ltd Engine Family KJR5.3V5FMF4

Liter (CID) 5.3 (326) Eng. Type V12

Emission Control Sys. (Special Features) AIP:2-WUTWC(2):2-HOS(EPFI)

Engine Code	Vehicle Models (Dyno Hp)	Trans Type	Equiv. Test Weight	Ign.System (ECU Part No.	Fuel System (ECU) Part No.	EGR Valve Part No.	Catalyst Part No.
5.3SFC-89	XJS V12 i) Coupe (8.1)	A3	i) 4250	ESAC	EPFI	not fitted	CBC 7958 CBC 7959 and CBC 8212
	ii) Convertible (8.0)		ii) 4500	DAC 5871	DAC 6337		CBC 8213

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.