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:

<u>Miles</u>	Non-Methane	Carbon	Nitrogen
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>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>	Non-Methane	Carbon	Nitrogen
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>
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 abovereferenced 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. JAGUAR CARS, LTD.

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 $\frac{87}{4}$ day of September, 1993.

R. B. Summerfield // Assistant Division Chief Mobile Source Division

JAGUAR CARS LTD

RJC4.0VHGFEK

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 .07.01.01 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

 Manufacturer: Jaguar Cars Ltd
 Engine Family: RJC4.0VHCFEK

 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

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

JAGUAR CA	RS LTD	YY 1994	Engine	Family	RJ	C4.OVHGFEK	17.	-11
17.00.00.	00 cont'd				E.O.	# <u>A-220-30</u>	Page	<u>1</u> of <u>1</u>
.07.01.	01 <u>1994 AIR 1</u>	RESOURCES	BOARD SU	PPLEMENT	AL D	ATA SHEET		
Manufactu	rer: Jaguar C	ars Ltd	En	gine Fam	nily:	RJC4.0VHG	FEK	
Passenger	Car: <u>X</u> (PC)							
Stds Type	: <u>Tier 1</u>					а.		
Fuel Type	: <u>Gasoline</u>		Ev	aporativ	ve Fai	mily: <u>RJC1</u>	107AYM00	
Engine Co	nfiguration:	16 Liter	(CID): <u>4</u>	.0 (243)	2			
Engine: F	ront X Mid _	Rear _						
·			Drive	: FWD _	RWD	X 4WD-FT	_ 4WD-PT	-
Exhaust E	CS & Special I	Features:	AIR:EGR	: 2WUTWC:	HO2S	:2TWC:MFI		
			•					
Engine Code	Vehicle Models		s Type itomatic anual	ETW I)PA	ECM (ICM) Part No	System	Catalyst Part No.
	<u>∧</u>			<u></u>				

4.0HFC-93

XJ6 Vanden Plas* A

*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.

4250 7.2 DBC12522

EBC2737

D/P: LCA

U/F: LDA

JAGUAR CARS	LTD MY	1994	Engine	Family	7 RJC	4.0VHGFEK	17-	11.1
17.00.00.00) cont'd				E.O.	#A-220-39	Page	<u>1</u> of <u>1</u>
.07.01.01	1994 AIR RI	SOURCES	BOARD SU	PPLEME	NTAL DA	TA SHEET		
	er: Jaguar Ca					RJC4.0VHGE	<u>EK</u>	
Passenger (Car: X (PC)							
Stds Type:	<u>Tier 1</u>							
Fuel Type:	Gasoline		Ev	aporat	ive Fam	nily: <u>RJC1</u> 1	07AYM00	
Engine Con	figuration: I	6 Liter	(CID): <u>4</u>	.0 (24	<u>3)</u>			
Engine: Fr	ont <u>X</u> Mid _	Rear _	Drive	: FWD	RWD	<u>x</u> 4wd-ft	_ 4WD-PT	
Exhaust EC	S & Special F	eatures:						
							· .	
Engine Code	Vehicle Models	A- A	s Type utomatic anual	ETW	DPA	ECM (ICM) Part No	System	Catalyst Part No.
4.0HFC-93	XJ6	A		4250	7.8**	DBC12522	EBC2737	D/P: LCA

4.0HFC-93 XJ6 A 4250 7.8** DBC12522 EBC2737 Vanden Plas*

> *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.

U/F: LDA

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

JAGUAR	CARS	LTD	MY 1994	Engine	Family	RJC4.0	VHGFEK	17-11.2
							170-30	
17.00.0	00.00	cont'd				E.O. # /	-120-59	Page <u>1</u> of <u>1</u>
.07.0	01.01	<u>1994 AIR</u>	RESOURCES	BOARD SUI	PPLEMEN	TAL DATA	SHEET	
Manufac	cture	: Jaguar	Cars Ltd	Eng	gine Far	nily: <u>RJC</u>	4.0VHGFEK	
Passeng	ger Ca	ar: <u>X</u> (PC)						
Stds Ty	/pe:]	<u>fier l</u>						
Fuel Ty	/pe: <u>(</u>	Gasoline		Eva	aporativ	ve Family	: <u>RJC1107A</u>	<u>YM00</u>
Engine	Confi	iguration:	<u>16</u> Liter	(CID): <u>4</u>	.0 (243)	<u>)</u>		
Engine:	From	nt <u>X</u> Mid	_ Rear _					
				Drive	FWD _	RWD $\underline{\mathbf{X}}$	4WD-FT _	4WD-PT _
Exhaust	ECS	& Special	Features:	AIR:EGR	2WUTWC	HO2S:2TW	C:MPI	
Engine		Vehicle	Trans	Туре	ETW I	DPA ECM	EG	R Catalyst

Code	Models	A- Automatic M- Manual			(ICM) Part No	System Part No	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).

JAGUAR CARS LTD MY 1994	Engine Family	RJC4.0VHGFEK	17-12.1
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17.00.00.00 cont'd		E.O. # <u>P-220-39</u>	Page <u>1</u> of <u>1</u>
.07.01.02 1994 AIR RESOURCES BO	ARD SUPPLEMENT	AL DATA SHEET	
Manufacturer: Jaguar Cars Ltd	Engine Fam	ily: RJC4.0VHGFEK	
Passenger Car: <u>X</u> (PC)			
Stds Type: <u>Tier 1</u>			
Fuel Type: <u>Gasoline</u>	Evaporativ	e Family: <u>RJC1091A</u>	VM00
Engine Configuration: <u>16</u> Liter (C	ID): <u>4.0 (243)</u>	-	
Engine: Front <u>X</u> Mid _ Rear _			
	Drive: FWD _	RWD $\underline{\mathbf{X}}$ 4WD-FT _	4WD-PT
Exhaust ECS & Special Features:	IR: 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.OHFC	XJS Coupe	A	- 4000	8.0	DAC11502	EBC2737	D/P: ACA
-935/1	Convertible	A	4250	8.0	DAC11502	EBC2737	U/F: BDC D/P: ACA
	000202020		.200				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).

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