

En communication à ~~Mme Legrand~~ ACCUS
le ~~21-7-61~~ 9/2/63
A rendre à la FIA après usage
Manufacturers Reference No. for Application

JAG/6a



F.I.A. Recognition No. 34

ROYAL AUTOMOBILE CLUB

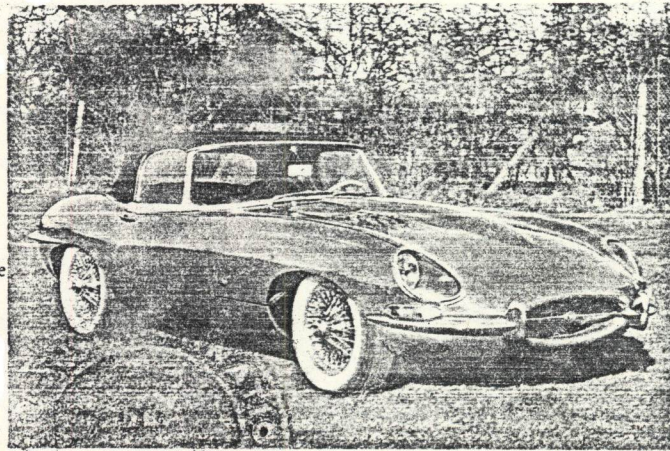
PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

Form of Recognition in accordance with
Appendix J to the
International Sporting Code.

Manufacturer **Jaguar Cars Limited.**
Model **'E' Type.** Year of Manufacture **1961**
Chassis **850001 Right Hand Drive. 875001 Left Hand Drive,**
Serial No. of Engine **R 1001**
Type of Coachwork **Open Two Seater.**
Recognition is valid from **19 JUN 1961** In category **Group 3**
Grand Touring.

Photograph to be affixed here



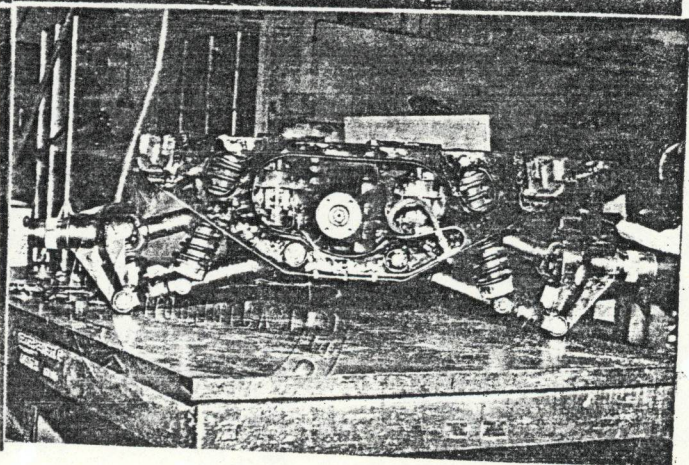
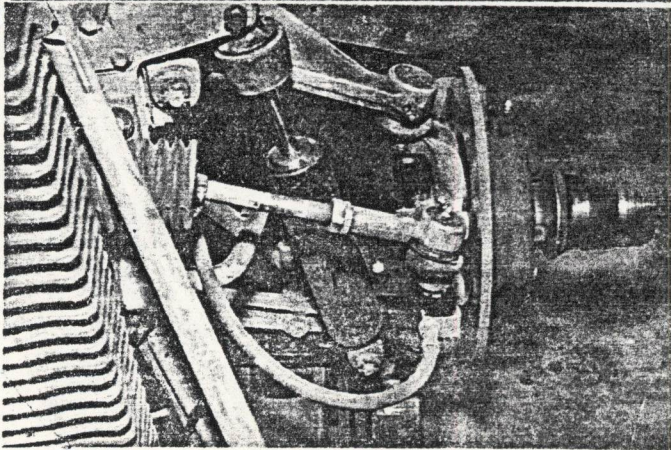
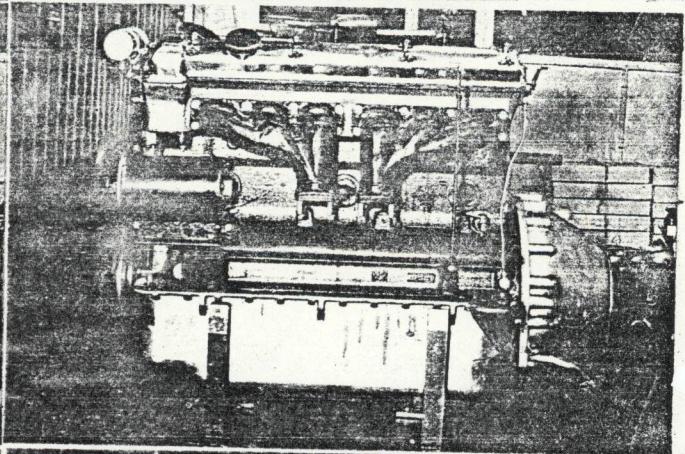
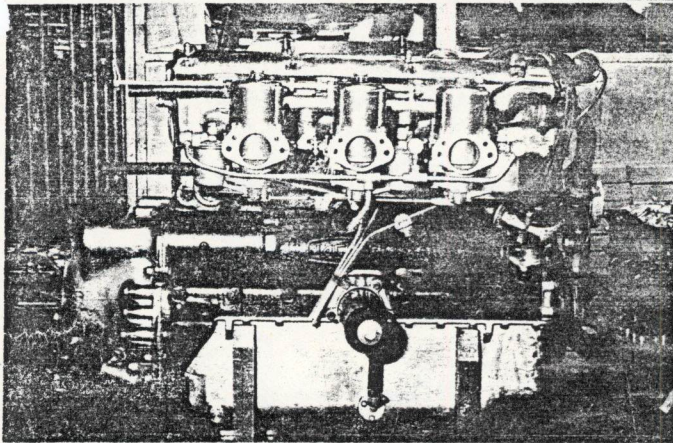
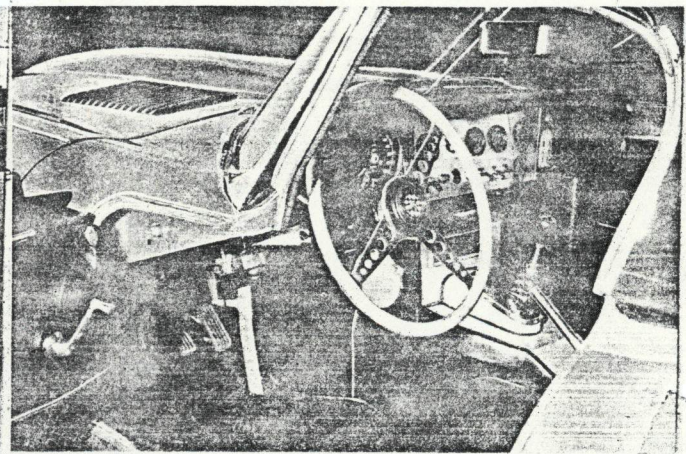
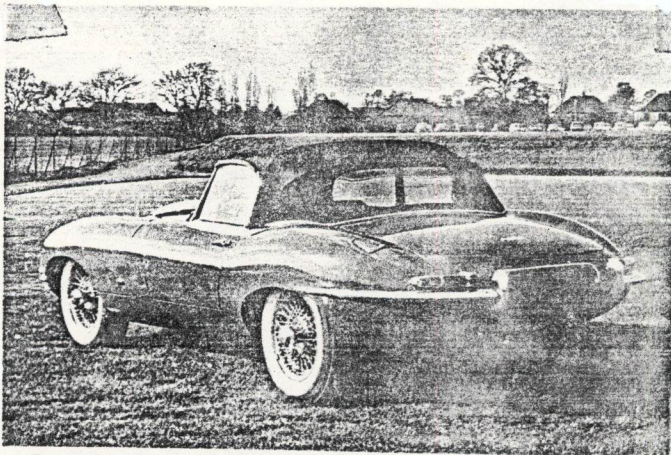
Stamp of F.I.A. to be affixed here.

MEMBER OF
The FEDERATION
INTERNATIONALE
de l'Automobile

Robert Johnson

General description of car:

'E' Type Grand Touring Car, 3.8 litre capacity.
Open 2 seater, available with detachable hard
top.



ENGINE

No. of cylinders **6** ~~in V~~ **in line**
~~Opposed~~

Cycle **Otto (4 Stroke)** Firing order **1. 5. 3. 6. 2. 4.**

Capacity **3,781** c.c. Bore **87** m.m. Stroke **106** m.m.

Maximum rebore **1 m.m.** Resultant capacity **3875** c.c.

Material of cylinder block **Cast Iron** Material of sleeves, if fitted **Cast Iron.**

Distance from crankshaft centre line to top face of block at centre line of cylinders **291** m.m.

Material of cylinder head **Aluminium Alloy.** Volume of one combustion chamber **98** c.c.

Compression ratio **9:1 Alternative 8:1.**

Material of piston **Aluminium Alloy.** No. of piston rings **3**

Distance from gudgeon pin centre line to highest point of piston crown **57m.m. (9:1).**

Bearings { Crankshaft main bearings: Type **Steel Backed Shell** Dia. **69.85** m.m.
 Connecting rod big end: Type **Steel Backed Shell** Dia. **52.98** m.m.

Weights { Flywheel **9.63** kg.
 Crankshaft **28.5** kg.
 Connecting rod **0.88** kg.
 Piston with rings **0.538** kg.
 Gudgeon pin **0.128** kg.

No. of valves per cylinder **2** Method of valve operation **O. H. C. and Tappets.**

No. of camshafts **2** Location of camshafts **Cylinder Head.**

Type of camshaft drive **Two Stage Duplex Chain.**

Diameter of valves: Inlet **44.4** m.m. Exhaust **41.3** m.m.

Diameter of port at valve seat: Inlet **38.1** m.m. Exhaust **34.9** m.m.

Tappet clearance for checking timing: Inlet **0.25** m.m. Exhaust **0.25** m.m.

Valves open: Inlet **15° BTDC** Exhaust **57° BEDC**

Valves close: Inlet **57° AEBC** Exhaust **15° ATDC**

Maximum valve lift: Inlet **9.5** m.m. Exhaust **9.5** m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift: Inlet **111°** Exhaust **249°**

$\frac{3}{4}$ Maximum lift: Inlet **55°** Exhaust **193°**

Valve springs: **Inlet** **Exhaust**

Type **Coil** **Coil**

No. per valve **2** **2**

Carburettor: Type **Horizontal.** No. fitted **3**
 (up or down draft, horizontal)

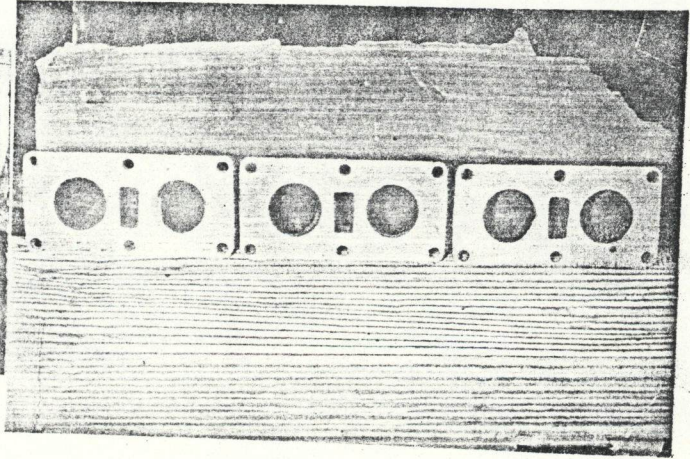
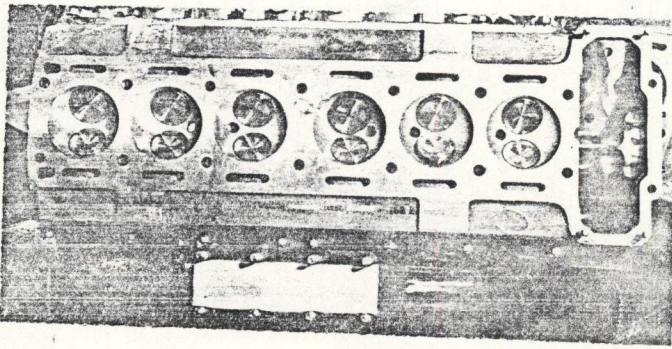
Make **S.U.** Model **H.D. 8.**

Flange hole diameter **50.8** m.m. Choke diameter **Variable** m.m.

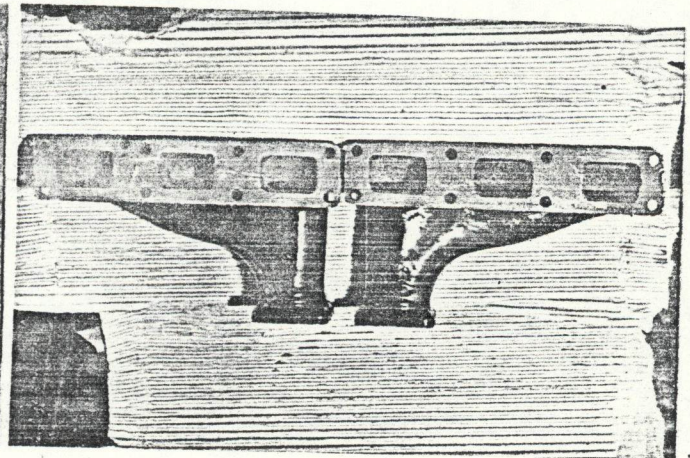
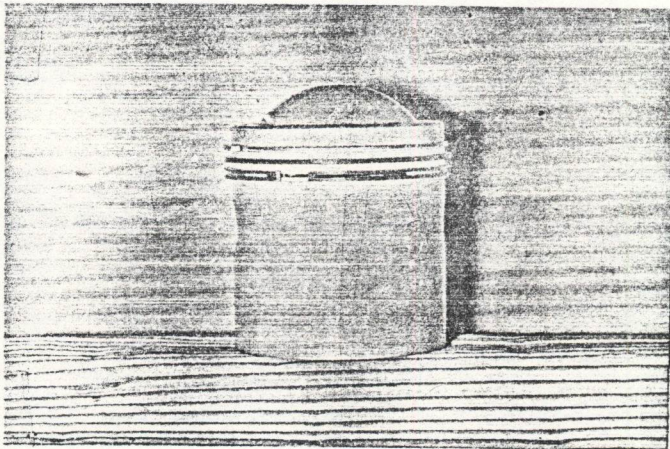
Main jet identification No. **3.16 m.m. (0.125").**

Air filter: Type **Paper Element.** No. fitted **1**

Inlet manifold:
 Diameter of flange hole at carburettor **52** m.m.
 Diameter of flange hole at port **40** m.m.



Exhaust manifold:
 Diameter of flange hole at port **34.92 x 53.97** m.m.
 Diameter of flange hole at connection to silencer inlet pipe **47.62** m.m.



ENGINE ACCESSORIES

Make of fuel pump **Lucas** No. fitted **1**

Method of operation **Electric**

Type of ignition system **Coil** coil or magneto

Make of ignition **Lucas** Model

Method of advance and retard **Centrifugal and Vacuum.**

Make of ignition coil **Lucas** Model **H. A. 12.**

No. of ignition coils **One** Voltage **12 Volts.**

Make of dynamo **Lucas** Model **C45 or C42**

Voltage of dynamo **12** Maximum output **30** amps.

Make of starter motor **Lucas** Model **M 45 G.**

Battery: No. fitted **1** Voltage **12** Capacity **57** amp. hour

Make Jaguar Model 'E' Type F.I.A. Recognition No. _____
 Manufacturers Reference No. of Application JAB/6a

TRANSMISSION

Make of clutch Borg and Beck Type Single Dry Plate
 Diameter of clutch plate 254 m.m No. of plates 1
 Method of operating clutch Hydraulic
 Make of gearbox Jaguar Type 4 Speed Synchronous
 No. of gearbox ratios 4. and reverse
 Method of operating gearshift Manually.
 Location of gearshift Top of Gear Box
 Is overdrive fitted? No.
 Method of controlling overdrive, if fitted N/A

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.378:1	$\frac{38}{27} \times \frac{36}{15}$	2.98:1	$\frac{37}{28} \times \frac{36}{16}$				
2.	1.86:1	$\frac{38}{27} \times \frac{37}{28}$	1.74:1	$\frac{37}{28} \times \frac{37}{28}$				
3.	1.283:1	$\frac{38}{27} \times \frac{31}{24}$	1.21:1	$\frac{37}{28} \times \frac{31}{24}$				
4.	1.0:1	-	1.0:1	-				
5.								

Type of final drive Hypoid
 Type of differential Thornton 'Power-Lok' Limited Slip Differential.
 Final drive ratio 3.31:1 Alternatives 2.93:1 3.07:1 3.54:1 3.77:1
 No. of teeth 13 x 43 14 x 41 41 x 43 13 x 46 13 x 49
 Overdrive ratio, if fitted N/A

WHEELS

Type Wire Spoke Weight 9.16 kg.
 Method of attachment Centre Lock Hub Cap.
 Rim diameter 381 m.m. Rim width 127 m.m.
 Tyre size: Front 6.00/6.40 x 15 Rear 6.00/6.40 x 15

BRAKES

Method of operation Hydraulic.
 Is servo assistance fitted? Yes
 Type of servo, if fitted Dunlop Bellows Type.
 No. of hydraulic master cylinders 2 Bore 15.88 m.m.

	Front	Rear
No. of wheel cylinders	<u>6</u>	<u>6</u>
Bore of wheel cylinders	<u>53.9</u> m.m.	<u>44.45</u> m.m.
Inside diameter of brake drums	<u>N/A</u> m.m.	<u>N/A</u> m.m.
No. of shoes per brake	<u>N/A</u>	<u>N/A</u>
Outside diameter of brake discs	<u>279.4</u> m.m.	<u>254</u> m.m.
No. of pads per brake	<u>2</u>	<u>2</u>
Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)		

	Front	Rear
Length	<u>54</u> m.m.	<u>54</u> m.m.
	m.m.	m.m.
Width	<u>47.5</u> m.m.	<u>47.5</u> m.m.
Total area per brake	<u>5120</u> m.m. ²	<u>5120</u> m.m. ²

SUSPENSION.

	Front	Rear
Type	<u>Independent</u>	<u>Independent</u>
Type of spring	<u>Torsion Bar</u>	<u>Coil Springs</u>
Is stabiliser fitted?	<u>Yes</u>	<u>Yes</u>
Type of shock absorber	<u>Telescopic</u>	<u>Telescopic</u>
No. of shock absorbers	<u>2</u>	<u>2</u>

STEERING

Type of steering gear Rack and Pinion

Turning circle of car 11.28 m., approx.

No. of turns of steering wheel from lock to lock 2½

CAPACITIES AND DIMENSIONS

Fuel tank 63.5 litres Sump 7½ litres

Radiator 12.5 litres

Overall length of car 445 cm. Overall width of car 166 cm.

Overall height of car, unladen (with hood up, if appropriate) 188 cm.

Distance from floor to top of windscreen:

Highest point 89.9 cm. Lowest point 86.0 cm.

Width of windscreen:

Maximum width 127 cm. Minimum width 113.7 cm.

*Interior width of car 124.5 cm.

No. of seats 2

Track: Front 127 cm. Rear 127 cm. or 129.5 cm.

Wheelbase 244 cm. Ground clearance 139.7 m.m.

*(To be measured at the immediate rear of the steering wheel, and the width quoted to be maintained in a vertical plane of not less than 25 cms.)

Overall weight with water, oil and spare wheel, but without fuel 1118.5 kgs.

Additional information for cars fitted with two-cycle engines

System of cylinder scavenging.....

Type of lubrication.....

Size of inlet port:

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.²

Size of exhaust port:

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.²

Size of transfer port:

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.²

Size of piston port:

Length measured around piston..... m.m.

Height..... m.m. Area..... m.m.²

Method of pre-compression.....

Bore and stroke of pre-compression cylinder, if fitted..... m.m.

Distance from top of cylinder block to lowest point of inlet port..... m.m.

Distance from top of cylinder block to highest point of exhaust port..... m.m.

Distance from top of cylinder block to highest point of transfer port..... m.m.

Drawing of cylinder ports.

Supercharger, if fitted

Make..... Model or Type No.....

Type of drive..... Ratio of drive.....

Fuel injection, if fitted

Make of pump..... Model or Type No.....

Make of injectors..... Model or Type No.....

Location of injectors.....

Optional equipment affecting preceding information:—

- (a) Alternative fuel tank, capacity 109.2 litres.
- (b) Detachable Hard Top.
- (c) Offset rim rear wheels, giving an overall increase of 2.54 cm. to the rear track.