R.A.C. COPY

F.I.A. Recognition No. 11

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 XK.150'S' (3.8 litre) Fixed Head Coupe Year of Manufacture 1959 - 60

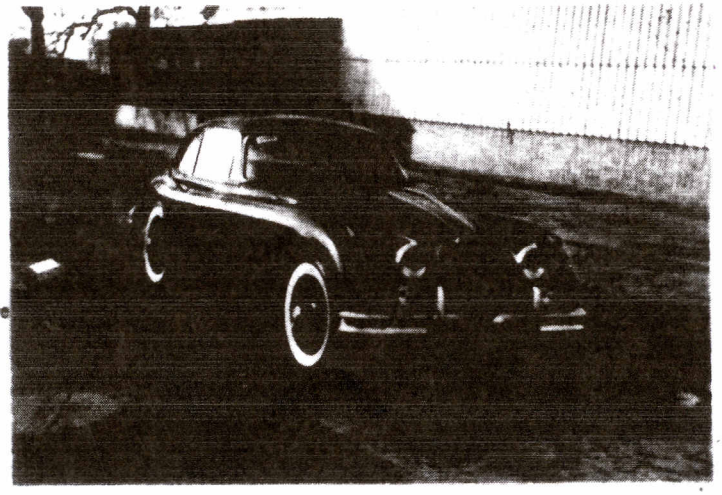
Serial No. of Chassis 824001 R.H. Drive 834001 L.H.Drive

Engine VAS 1001

Type of Coachwork Fixed Head Coupe

Recognition is valid from ..... In category Group 3, Grand Touring

Photograph to be affixed here



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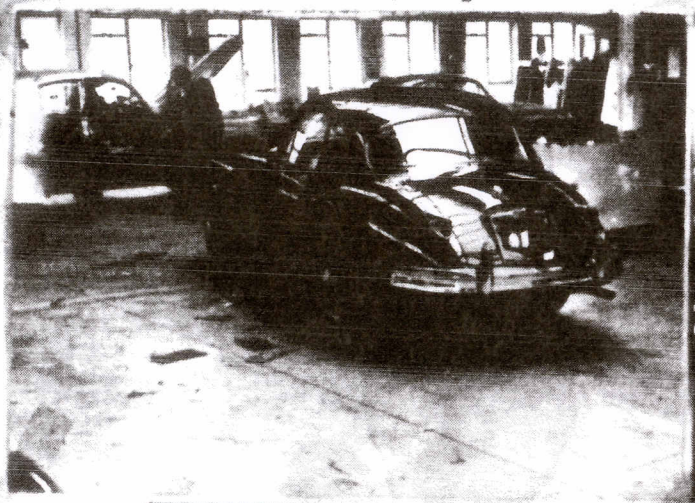
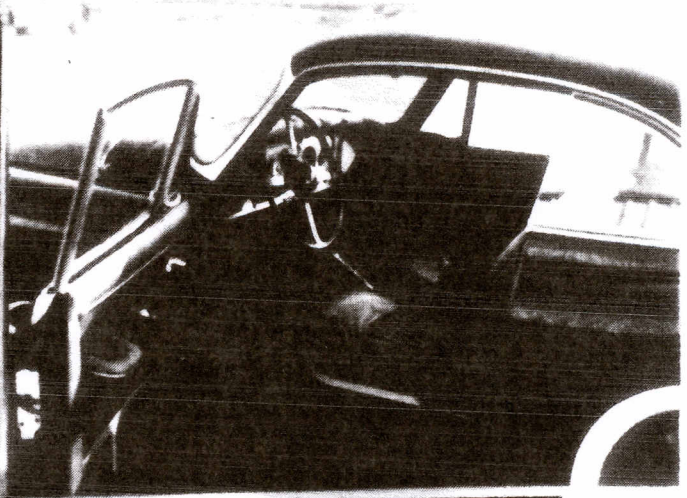
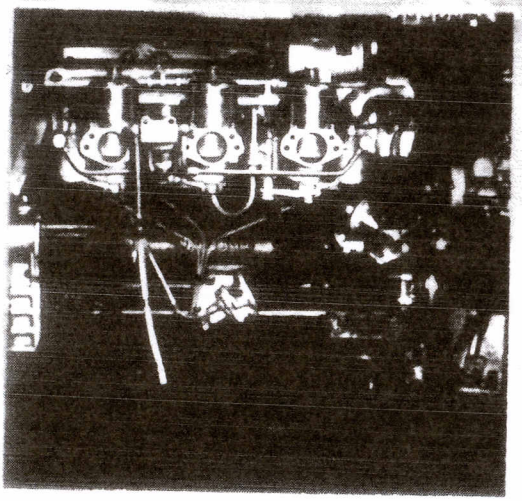
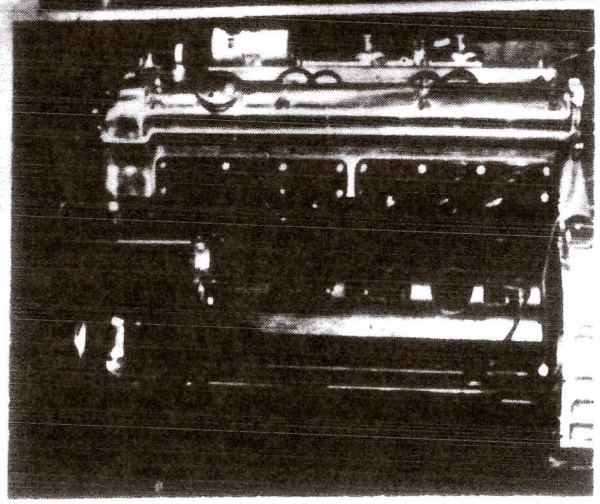
General description of car:

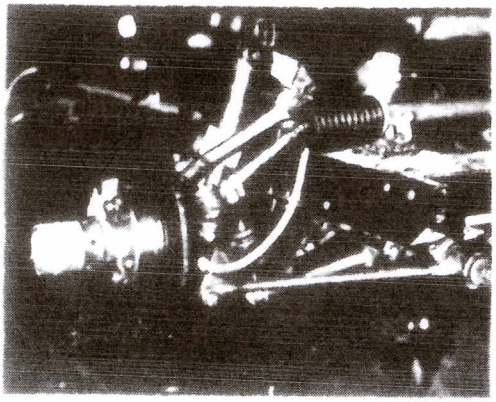
XK.150 'S' 3.8 litre engine. Fixed head coupe with Overdrive
Disc or Wire spoke wheels

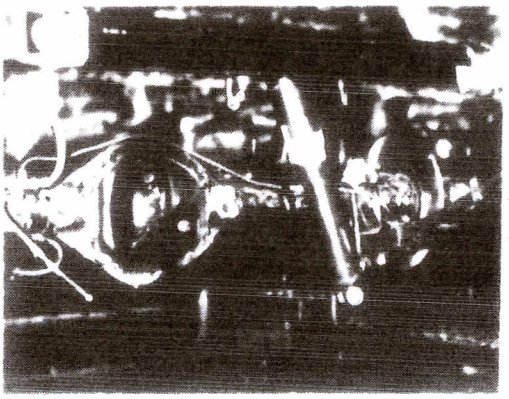












ENGINE

No. of cylinders 6 — In line

Cycle Otto (4 stroke) — Firing order 1, 5, 3, 6, 2, 4

Capacity 3781 c.c. — Bore 87 m.m. — Stroke 106 m.m.

Maximum rebore 1 mm — 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 97 c.c.

Compression ratio 9 : 1 or 8 : 1

Material of piston Aluminium alloy — No. of piston rings 3

Distance from gudgeon pin centre line to highest point of piston crown 57 m.m.

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 28.1 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 44.45	m.m.	Exhaust 41.27	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° B.T.D.C.		Exhaust 57° B.B.D.C.	
Valves close	Inlet 57° A.B.D.C.		Exhaust 15° A.T.D.C.	
Maximum valve lift:	Inlet 9.5	m.m.	Exhaust 9.5	m.m.

Degrees of crankshaft rotation from TDC to—

Maximum lift:	Inlet 111°		Exhaust 249°	
½ Maximum lift:	Inlet 55°		Exhaust 193°	

Valve springs:

	Inlet	*Exhaust*
Type	Coil	Coil
No. per valve	2	2

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

Make S.U. — Model HD.8

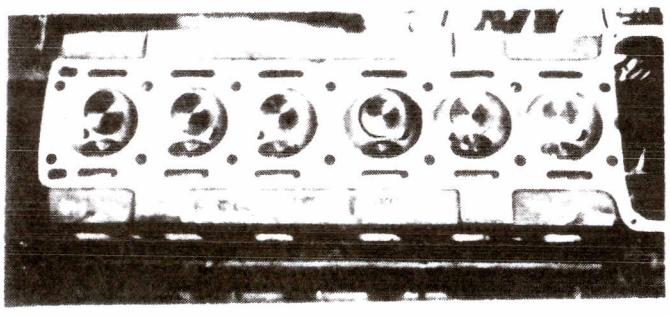
Flange diameter 50.8 m.m. — Choke diameter Variable m.m.

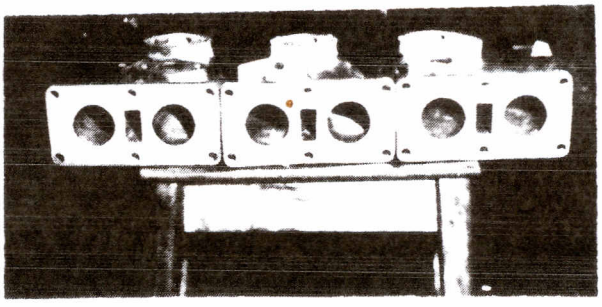
Main jet identification No. 3.15 m.m. (0.125")

Air filter: Type Paper No. fitted 1

Inlet manifold:

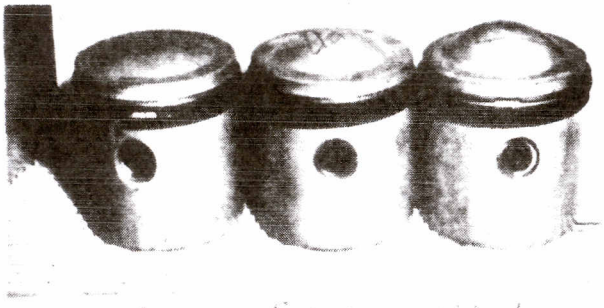
Diameter of flange at carburettor	52	m.m.
Diameter of flange at port	40	m.m.

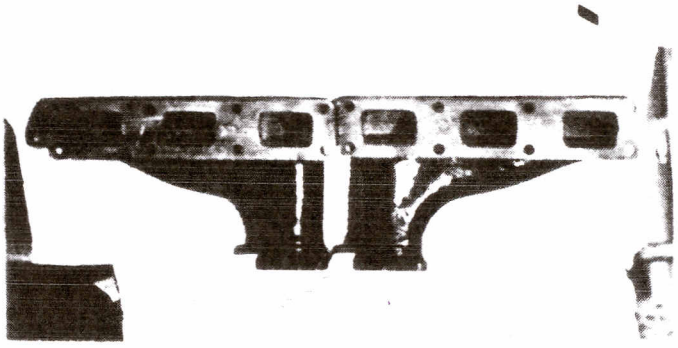




Exhaust manifold:

Diameter of flange at port	34.92 x 53.97	m.m.
Diameter of flange at connection to silencer inlet pipe	47.62	m.m.





ENGINE ACCESSORIES

Make of fuel pump S.U. No. fitted 2

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 HA.12

No. of ignition coils 1 Voltage 12

Make of dynamo Lucas Model C45 PVS/6

Voltage of dynamo 12 Maximum output 25 amps

Make of starter motor Lucas Model M 45 G

Battery No. fitted 2 Voltage 12 v (2 at 6 v) Capacity 72 amp. hour

Make Jaguar Model XK.150 'S' (3.8 litre) F.I.A. Recognition No.

TRANSMISSION

Make of clutch Borg and Beck Type Single dry plate

Diameter of clutch plate 254 mm (10") No. of plates 1

Method of operating clutch Hydraulic

Make of gearbox Jaguar Type 4 speed synchromesh

No. of gearbox ratios 4 and reverse

Method of operating gearshift Manually

Location of gearshift Top of gearbox (body floor)

Is overdrive fitted? Yes

Method of controlling overdrive, if fitted Mechanical

	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.	1.286:1	$\frac{38}{27} \times \frac{31}{34}$	1.21:1	$\frac{37}{28} \times \frac{31}{34}$				
4.	1.0:1	-	1.0:1	-				
5.								

Type of final drive Hypoid gears, semi-floating

Type of differential Thornton "Powr-Lok"

Final drive ratio 4.09 Alternatives 3.77

No. of teeth 11 x 45 13 x 49

Overdrive ratio, if fitted 0.778:1

WHEELS

Type Wire spoke or disc Weight Disc 10.26 kg Wire 9.34 kg.

Method of attachment Disc - 5 nuts, Wire - Centre lock hub cap

Rim diameter 405 m.m. Rim width Disc 139 Wire 127 m.m.

Tyre size: Front 600 x 16 Rear 600 x 16

BRAKES

Method of operation Hydraulic

Is servo assistance fitted? Yes

Type of servo, if fitted Lockheed $6\frac{7}{8}$"

No. of hydraulic master cylinders 1 Bore 22 m.m.

	Front	Rear
No. of wheel cylinders	4	4
Bore of wheel cylinders	54 m.m.	41.25 m.m.
Inside diameter of brake drums	- m.m.	- m.m.
No. of shoes per brake	-	-
Outside diameter of brake discs	305 m.m.	306 m.m.
No. of pads per brake	2	2

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	54 m.m.	54 m.m.
	m.m.	m.m.
Width	47.5 m.m.	47.5 m.m.
Total area per brake	5120 m.m.²	5120 m.m.²

SUSPENSION

	Front	Rear
Type	Independent	Semi elliptic springs
Type of spring	Torsion bar	Leaf
Is stabiliser fitted?	Yes	No
Type of shock absorber	Telescopic	Telescopic
No. of shock absorbers	2	2

STEERING

Type of steering gear Rack and pinion

Turning circle of car 10.0 m., approx.

No. of turns of steering wheel from lock to lock 2¾

CAPACITIES AND DIMENSIONS

Fuel tank 6½ litres Sump 7½ litres

Radiator 4.41 litres

Overall length of car 449.6 cm. Overall width of car 163.8 cm.

Overall height of car, unladen (with hood up, if appropriate) 139.6 cm.

Distance from floor to top of windscreen:

Highest point 90 cm. Lowest point 84 cm.

Width of windscreen:

Maximum width 140 cm. Minimum width 115 cm.

Interior width 122 cm.

No. of seats 2 and 2 occasional seats

Track: Front 131.1 cm. Rear 131.1 cm.

Wheelbase 259.1 cm. Ground clearance 181 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 1445 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 preceeding information:—