F.I.A. Rec. No. 5017
Group 1 - Series Production
Touring

ROYAL AUTOMOBILE CLUB

31, Belgrave Square, London, S.W.1.

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

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Cylinder-capacity 3781 cm3 230.6 in3

Manufacturer Jaguar Cars Limited — Model 3.8 'S' type saloon

Serial No. of chassis 1B 1001 — Manufacturer Jaguar Cars Limited

engine 7B 1001 — Manufacturer Jaguar Cars Limited

Recognition is valid from 1st Jan: 1966 — List 14

The manufacturing of the model described in this recognition form was started on 30th January 1964 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on 8th January 1965

Photograph A, ¾ view of car from front

F.I.A. Stamp

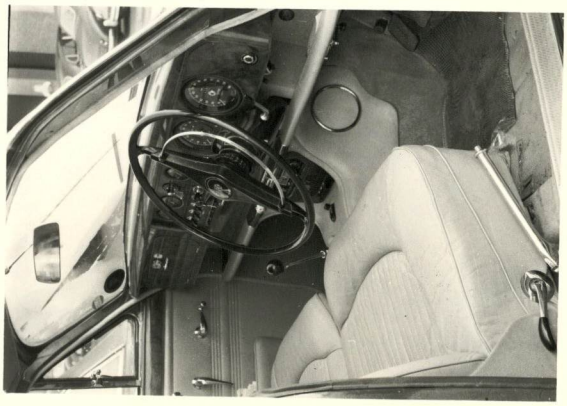
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

R.A.C. Stamp

Make Jaguar Model 3.8 'S' type F.I.A. Rec.no. 5017

B

C



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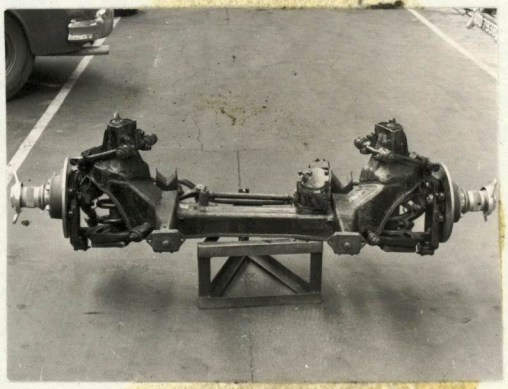

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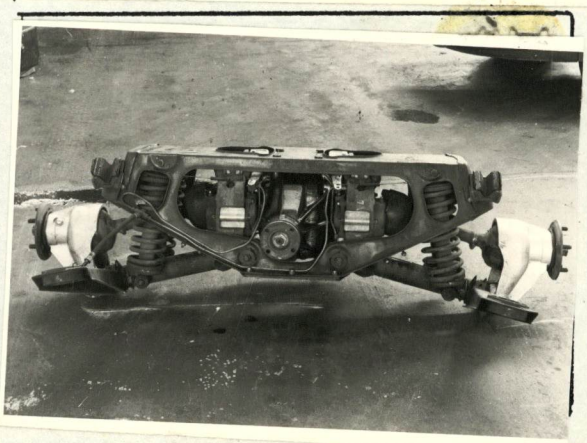

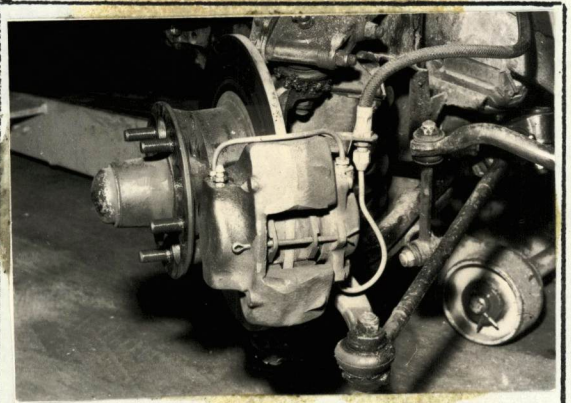

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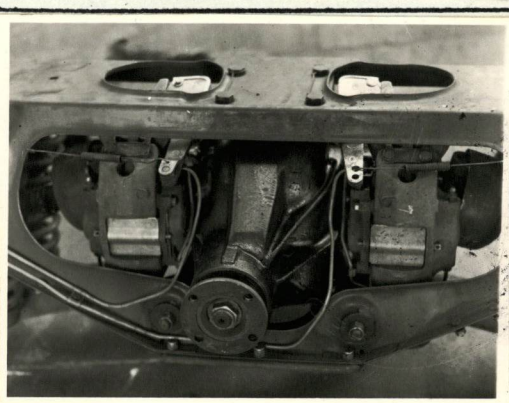

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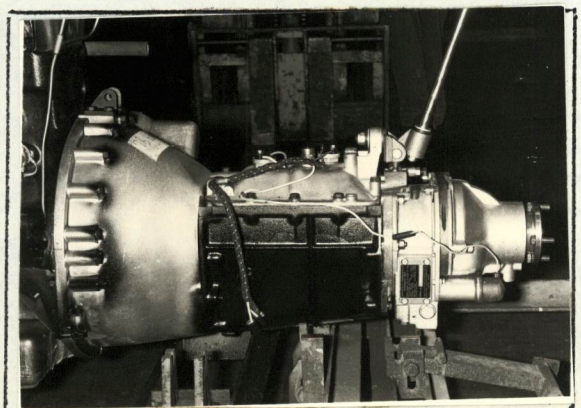

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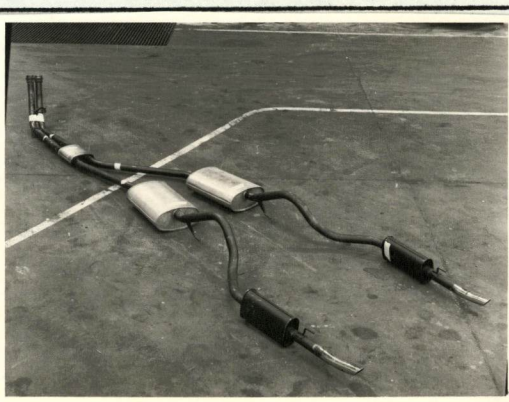
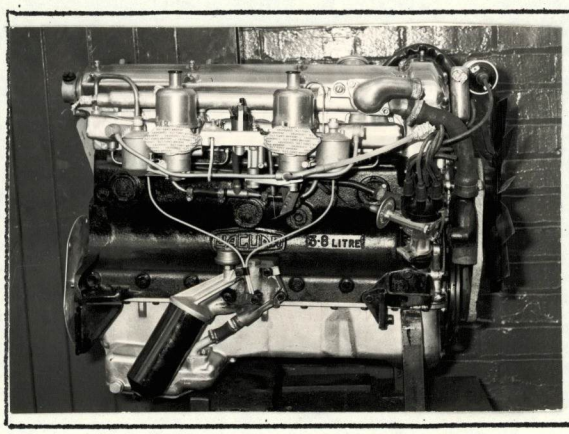


Make Jaguar Model 3.8 'S' type F.I.A. Rec.no. 5017

J



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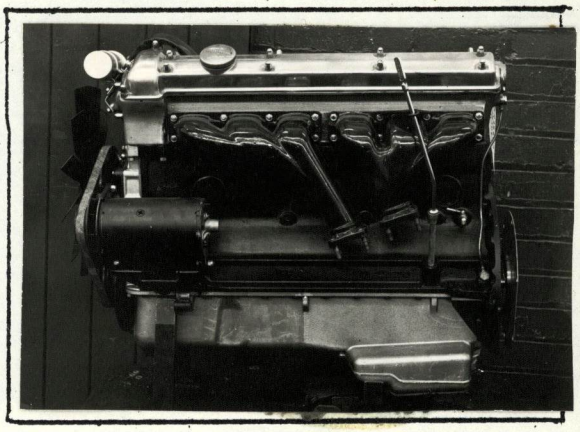

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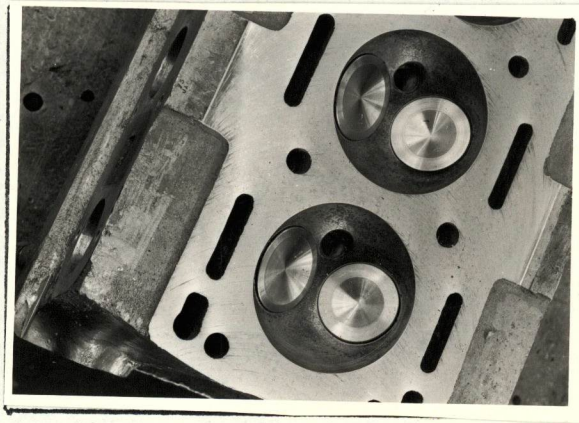

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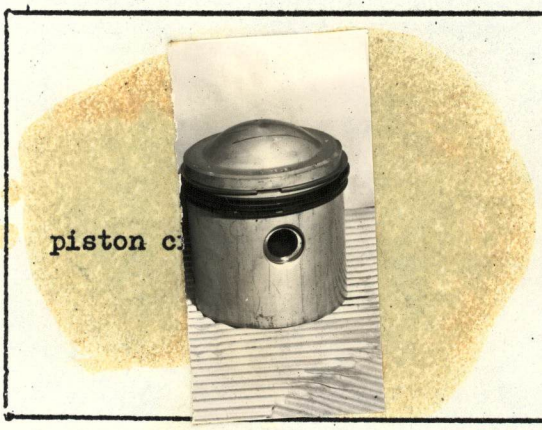

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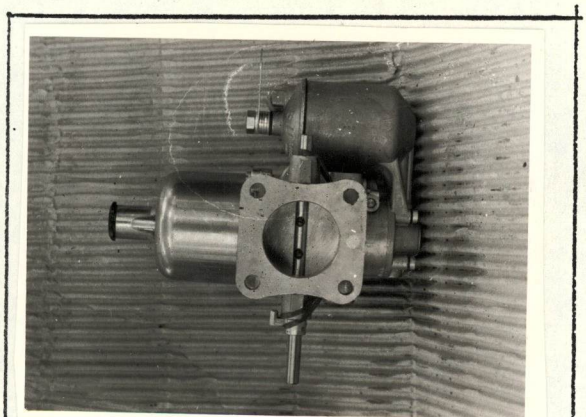
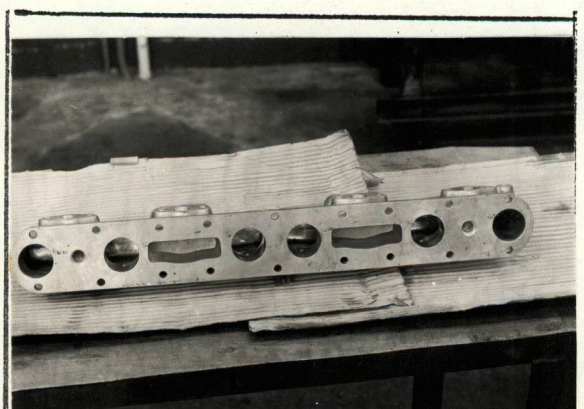


O

P



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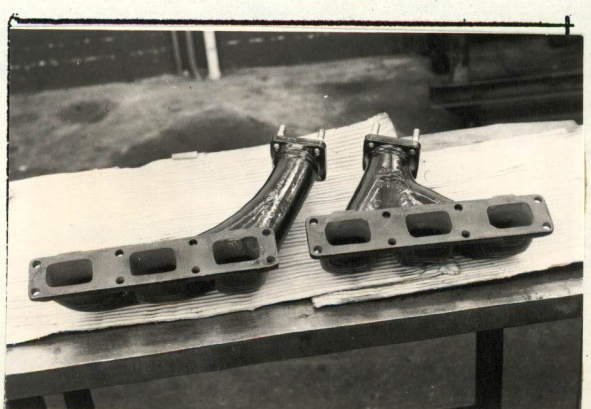
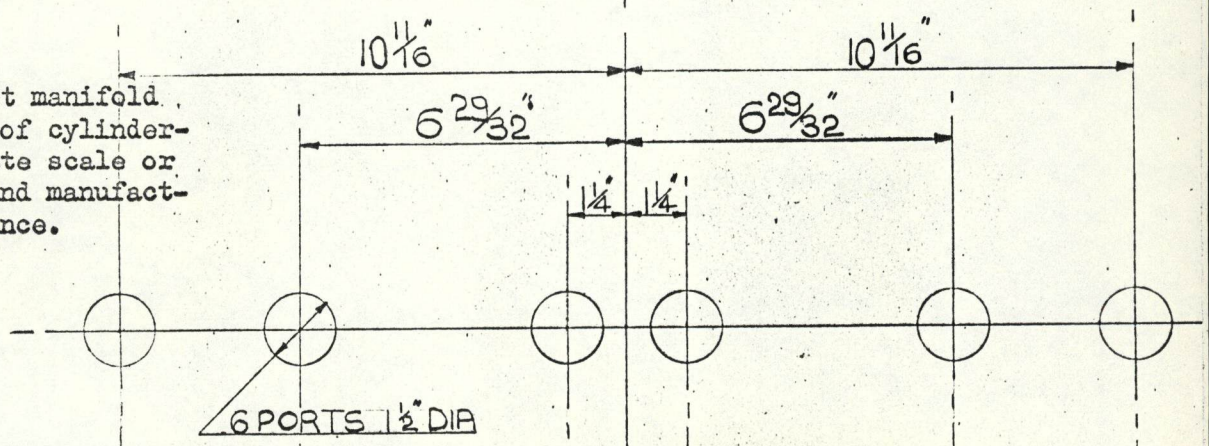
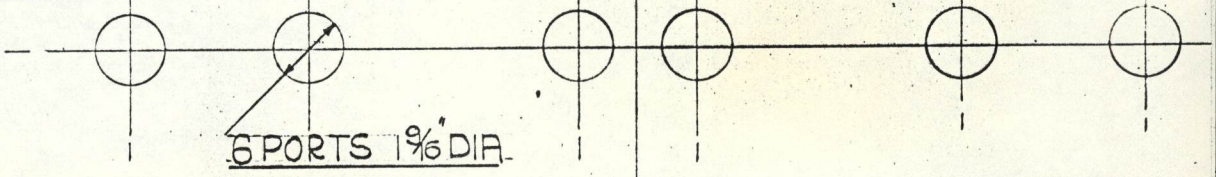


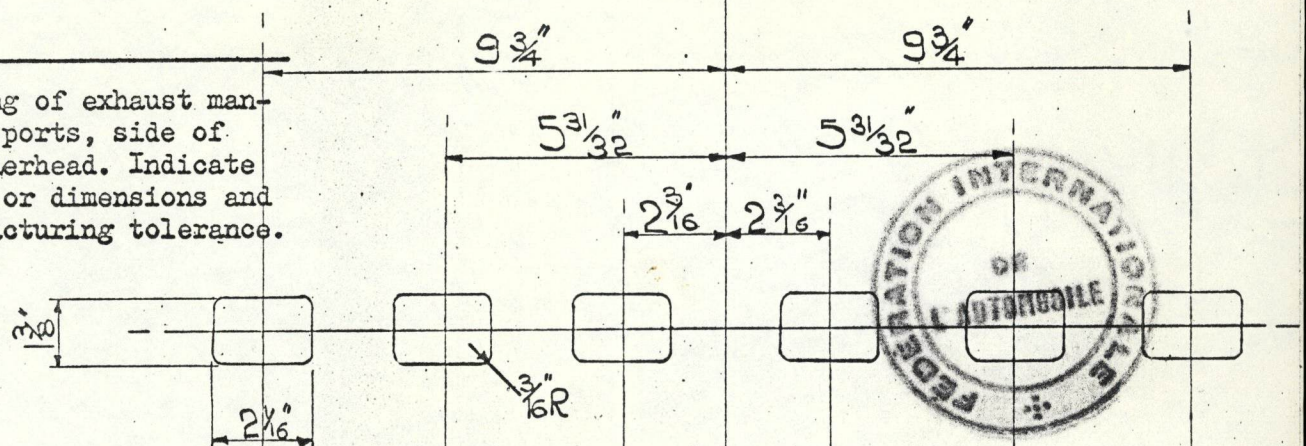
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



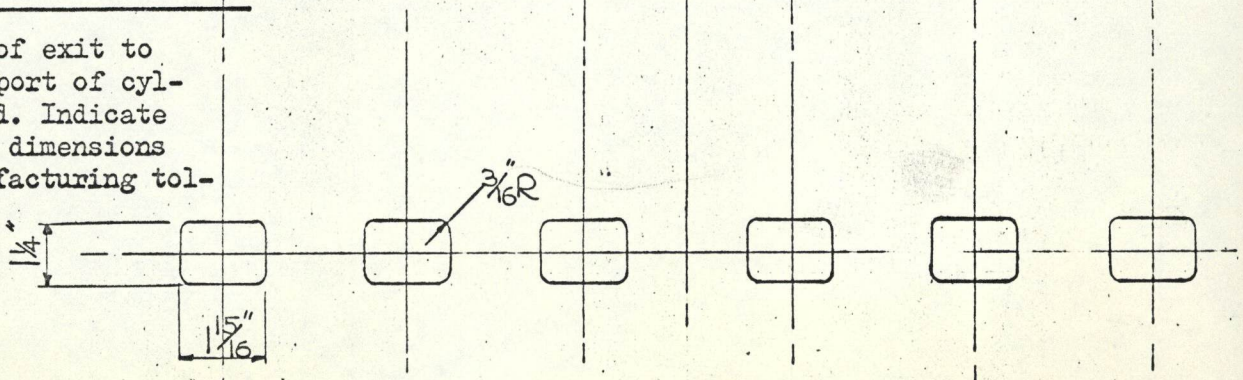
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



Drawing of exhaust manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



Drawing of exit to exhaust port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



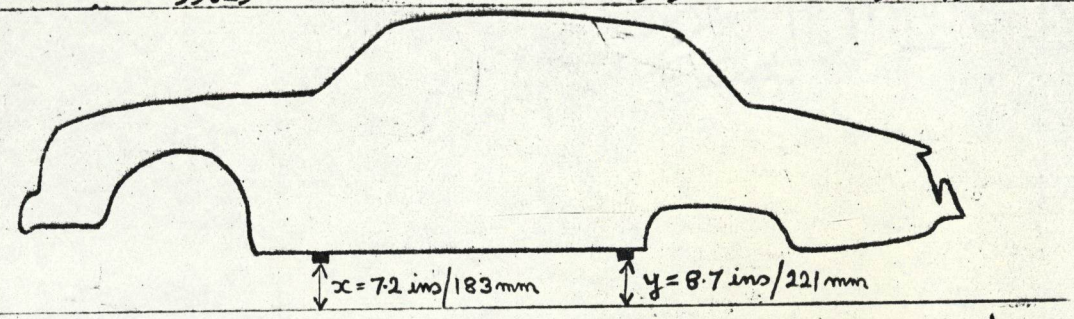
SCALE: 4/1 UNLIMITED MACHINING DIMENSIONS ±.010"

Make Jaguar Model 3.8 'S' type F.I.A. Rec.no. 5017

NOTE 1 All dimensions must be given in two measuring systems, see Note 3.

CAPACITIES AND DIMENSIONS

1.	Wheelbase		2727		mm.	107.375	inches
2.	Front track			3.	Rear track		
Disc wheels 1403	mm.	55.25	inches	1373	mm.	54.250	inches
Wire wheels 1403	mm.	55.25	inches	1343	mm.	52.875	inches



x & y are distances from underside of front & rear jacking points to ground. These distances remain constant & are unaffected by track & wheel rim variations.

4.	Overall length of the car	477.0	cm.	187.81	inches
5.	Overall width of the car	169.5	cm.	66.75	inches
6.	Overall height of the car	138.0	cm.	54.50	inches

7. Capacity of fuel tank (reserve included)

63.5 ltrs. 16.5 Gall.US 14.0 Gall.Imp.

8. Seating Capacity. 5

9. Weight. total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools:

1558 kg. 3428 lbs. 30.6 cwts.

NOTE 2

Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested for the wheels concerned. Specify ground clearance in relation to the track and give drawing of two easily recognisable points at front and rear at which measurements are taken. These ground clearance dimensions are only for information when checking the track and can in no way affect the eligibility of the car.

NOTE 3. CONVERSION TABLE

1 inch/pouce	- 2.54 cm	1 quart US	- 0.9464 ltrs
1 foot/pied	- 30.4794 cm	1 pint (pt)	- 0.568 ltrs
1 sq.inch/pouce carre	- 6.452 cm2	1 gallon Imp.	- 4.546 ltrs
1 cubin inch/pouce cube	- 16.387 cm3	1 gallon US	- 3.785 ltrs
1 pound/livre (lb)	- 453.593 gr.	1 hundred weight(cwt)	- 50.802 kg

Make Jaguar Model 3.8 'S' type F.I.A. Rec.no. 5017

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction : ~~separate~~ / unitary construction

21. Unitary construction, material(s) Steel

SEPARATE CONSTRUCTION - MATERIALS

22. Chassis Steel
23. Coachwork Steel
24. Number of doors 4
Material(s)
25. Bonnet Steel
26. Boot Lid Steel
27. Rear Window Glass
28. Windscreen Toughened or laminated glass
29. Front door windows Glass
30. Rear door windows Glass
31. Sliding system of door windows Winding
32. Material(s) of rear-quarter light Glass

ACCESSORIES AND UPHOLSTERY

38. Interior heating : yes - ~~no~~
39. Air conditioning : ~~yes~~ - no
40. Ventillation : yes - ~~no~~
41. Front seats, type of upholstery Leather
42. Weight of front seat(s), complete with supports and rails, out of the car: 21.6 kg. 47.5 lbs.
43. Rear seats, type of upholstery Leather
44. Front bumper, material(s) Steel Weight 7.25kg. 16 lbs.
45. Rear bumper, material(s) Steel Weight 7.25kg. 16 lbs.

WHEELS

50. Type Disc or wire
51. Weight (per wheel, without tyre) 8.12 or 9.16 kg. 17.88 or 20.18 lbs.
52. Method of attachment Five nuts or centre lock hub cap
53. Rim diameter 381 mm. 15 ins.
54. Rim width 127 mm. 5 ins.

STEERING

60. Type Recirculating ball
61. Servo-assistance : ~~yes~~ - ~~no~~ Optional
62. Number of turns of steering wheel from lock to lock 3.5 or 3.9 or 4.25
63. In case of servo-assistance. 3.0 or 3.9

Make Jaguar Model 3.8 'S' type F.I.A. Rec.no. 5017

SUSPENSION

70. Front suspension (photograph D), type Independent
71. Type of spring Coil
72. Stabiliser (if fitted) Yes
73. Number of shock absorbers 2 74. Type Telescopic
78. Rear suspension (photograph E), type Independent
79. Type of spring Coil
80. Stabiliser (if fitted)
81. Number of shock absorbers 4 82. Type Telescopic

BRAKES (photographs F and G)

90. Method of operation Hydraulic
91. Servo-assistance (if fitted), type Vacuum
92. Number of hydraulic master cylinders 1

	FRONT			REAR		
93. Number of cylinders per wheel	2			2		
94. Bore of wheel cylinder(s)	54	mm.	2.125 inches	43	mm.	1.688 inches
Drum Brakes						
95. Inside diameter		mm.	inches		mm.	inches
96. Length of brake linings		mm.	inches		mm.	inches
97. Width of brake linings		mm.	inches		mm.	inches
98. Number of shoes per brake		mm.	inches		mm.	inches
99. Total area per brake		mm2	sq.in.		mm2	sq.in.
Disc Brakes						
100. Outside diameter	280.2	mm.	11.031 inches	263.5	mm.	10.375 inches
101 Thickness of disc	9.5	mm.	0.375 inches	12.7	mm.	0.5 inches
102 Length of brake linings	51.3	mm.	2.02 inches	51.3	mm.	2.02 inches
103 Width of brake linings	50.8	mm.	2 inches	50.8	mm.	2 inches
104 Number of pads per brake	2			2		
105 Total area per brake	5123	mm2	7.94 sq.in.	5123	mm2	7.94 sq.in.

Make Jaguar Model 3.8 'S' type F.I.A. Rec.no. 5017

ENGINE (photographs J and K)

130. Cycle Otto 131. Number of cylinders 6

132. Cylinder Arrangement In line

133. Bore 87 mm. 3.425 in. 134. Stroke 106 mm. 4.173 in.

135. Capacity per cylinder 630 cm3 38.4 cu.in.

136. Total cylinder capacity 3781 cm3 230.6 cu.in.

137. Material(s) of cylinder block Cast iron

138. Material(s) of sleeves (if fitted) Cast iron

139. Cylinder head, material(s) Aluminium Number fitted 1

140. Number of inlet ports 6 141. Number of exhaust ports 6

142. Compression ratio 9:1 or [redacted]

143. Volume of one combustion chamber 98 cm3 6 cu.in.

144. Piston, material Aluminium 145. Number of rings 3

146. Distance from gudgeon pin centre line to highest point of piston crown 57 or 52.55 or 46.89 mm. 2.24 or 2.07 or 1.84 in.

147. Crankshaft : ~~moulded~~ / Stamped 148. Type of crankshaft : integral/.....

149. Number of crankshaft main bearings 7

150. Material of bearing cap Steel

151. System of lubrication : ~~dry sump~~ / oil in sump

152. Capacity, lubricant 8 ltrs. 14 pts. 8.25 Quarts U.S.

153. Oil cooler : ~~yes~~ / no 154. Method of engine cooling Water

155. Capacity of cooling system 12.5 ltrs. 22 pts. 13.25 quarts U.S.

156. Cooling fan (if fitted) dia. 40.64 cm. 16 in.

157. Number of blades of cooling fan 12

Bearings

158. Crankshaft main, type Steel backed shell Dia. 69.85 mm. 2.75 in.

159. Connecting rod, big end Steel backed shell Dia. 52.98 mm. 2.08 in.

Weights

160. Flywheel (clean) 9.5 or 12.7 kg. 21 or 28 lbs.

161. Flywheel with clutch (all turning parts) 19.2 or 22.4 kg. 42.25 or 49.25 lbs.

162. Crankshaft 28.5 kg. 62.78 lbs. 163. Connecting rod 0.88 kg. 1.94 lbs.

164. Piston with rings and pin 0.666 kg. 1.47 lbs.

Date Jaguar Model 3.8 'S' type F.I.A. Rec.no. 5017

FOUR STROKE ENGINES

170. Number of camshafts 2 171. Location Overhead

172. Type of camshaft drive Chain

173. Type of valve operation Overhead camshaft and tappet

INLET (see page 4)*

180. Material(s) of inlet manifold Aluminium

181. Diameter of valves 44.45 mm. 1.75 ins.

182. Max. valve lift 9.5 mm. 0.375in. 183. Number of valve springs 12

184. Type of spring Coil 185. Number of valves per cylinder 1

186. Tappet clearance for checking timing (cold) 0.25 mm. 0.010 ins.

187. Valves open at (with tolerance for tappet clearance indicated) 15° B.T.D.C.

188. Valves close at (with tolerance for tappet clearance indicated) 57° A.B.D.C.

189. Air filter, type Paper element

EXHAUST (see page 4)

195. Material(s) of exhaust manifold Cast iron

196. Diameter of valves 41.27 mm. 1.625 ins.

197. Max. valve lift 9.5 mm. 0.375in. 198. Number of valve springs 12

199. Type of spring Coil 200. Number of valves per cylinder 1

201. Tappet clearance for checking timing (cold) 0.25 mm. 0.010 ins.

202. Valves open at (with tolerance for tappet clearance indicated) 57° B.B.D.C.

203. Valves close at (with tolerance for tappet clearance indicated) 15° A.T.D.C.

CARBURETION (photograph N)

210. Number of carburettors fitted 2 211. Type Horizontal

212. Make S.U. 213. Model H.D.6

214. Number of mixture passages per carburettor 1

215. Flange hole diameter of exit port(s) of carburettor 44.45 mm. 1.75 ins.

216. Minimum diameter of venturi/minimum diam, with piston at maximum height 32.51 mm. 1.28 ins.

INJECTION (if fitted)

220. Make of pump 221. Number of plungers

222. Model or type of pump 223. Total number of injectors

224. Location of injectors

225. Minimum diameter of inlet pipe mm. ins.

* For additional information concerning two-stroke engines and super-charged engines, see page 13.

Make Jaguar Model 3.8 'S' type F.I.A. Rec.no. 5017

ENGINE ACCESSORIES

230. Fuel pump : ~~mechanical and/or~~ electric.

231. No.fitted 2

232. Type of ignition system Coil 233. No.of distributors 1

234. No. of ignition coils 1 235. No. of spark plugs per cylinder 1

236. Generator, number fitted 1 237. Method of drive Belt

238. Voltage of generator 12 volts. 239. Battery, number 1

240. Location Forward bulkhead

241. Voltage of battery 12 volts

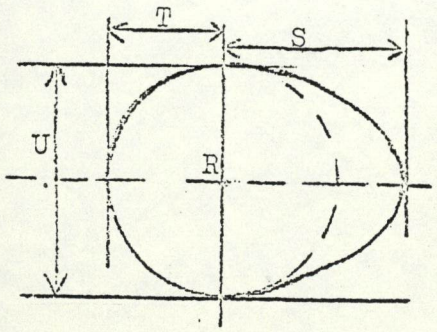
ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)

250. Max. engine output 220 (type of horsepower: S.A.E. B.H.P.) at 5500 rpm

251. Max. rpm 6500 output at that figure 210 B.H.P. at 3000 rpm

252. Max torque 240 pounds feet

253. Max speed of the car 200 km/hour 125 miles/hour



R = centre of camshaft.

Inlet cam

S =	22.99	mm.	0.905 inches
T =	13.22	mm.	0.520 inches
U =	26.44	mm.	1.040 inches

Exhaust cam

S =	22.99	mm.	0.905 inches
T =	13.22	mm.	0.520 inches
U =	26.44	mm.	1.040 inches

Make Jaguar Model 3.8 'S' type F.I.A. Rec.no. 5017

DRIVE TRAIN

CLUTCH

260. Type of clutch Dry plate

261. No of plates 1

262. Dia. of clutch plates 24.1 or 25.4cm. 9.5 or 10.0 ins..

263. Dia. of linings, inside 20.1 or 21.4cm. 7.9 or 8.4 ins.
outside 24.1 or 25.4cm. 9.5 or 10.0 ins.

264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

270. Manual type, make Jaguar

271. No. of gear-box ratios forward 4

272. Synchronized forward ratios 3 or 4

273. Location of gear-shift Floor

274. Automatic, make type

275. No. of forward ratios

276. Location of gear shift

277.	Manual		Automatic		Alternative manual / automatic			
	Ratio	No.teeth	Ratio	No.teeth	Ratio	No.teeth	Ratio	No.teeth
1	2.98:1	$\frac{37}{28} \times \frac{36}{16}$			3.04:1	$\frac{29}{21} \times \frac{33}{15}$		
2	1.74:1	$\frac{37}{28} \times \frac{37}{28}$			1.97:1	$\frac{29}{21} \times \frac{30}{21}$		
3	1.21:1	$\frac{37}{28} \times \frac{31}{34}$			1.33:1	$\frac{29}{21} \times \frac{25}{26}$		
4	1.00:1	-			1.00:1	-		
5								
6								
re-verse	2.98:1	$\frac{37}{28} \times \frac{36}{16}$			3.49:1	$\frac{29}{21} \times \frac{38}{15}$		

278. Overdrive, type Laycock de Normanville

279. Forward gears on which overdrive can be selected Top

280. Overdrive ratio 0.778:1

FINAL DRIVE

290. Type of final drive Hypoid

291 Type of differential Bevel gear

292. Type of limited slip differential (if fitted) Thornton Powr-Lok

293. Final drive ratio 3.77:1 or 4.09:1

Number of teeth 13/49 or 11/45

Make Jaguar Model 3.8 'S' type F.I.A. Rec.No. 5017

IMPORTANT - The conformity of the car with the following items of the present recognition form is to be disregarded during the scrutineering, when the vehicle has been entered in group 2 (Touring cars) or 3 (Grand Touring cars): 41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 184, 186, 187, 188, 189, 199, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, and photographs I, M and N.

During the scrutineering of cars entered in group 4 (sportscars) only the following items of the present recognition form are to be taken into consideration: 1,2,3,9,20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 159, 170, 171, 172, 173, 185, 200, 270, 271, 274, 275, 290, 291, 292 and photographs A, B, D, E, F, G, H, J, K and O.

The vehicle described in this form has been subject to the following amendments:

on.....19..	rec.no.....List.....	on.....19..	rec.no.....List.....		
on.....19..	rec.no.....List.....	on.....19..	rec.no.....List.....		
on.....19..	rec.no.....List.....	on.....19..	rec.no.....List.....		
on.....19..	rec.no.....List.....	on.....19..	rec.no.....List.....		
on.....19..	rec.no.....List.....	on.....19..	rec.no.....List.....		

Optional equipment affecting preceeding information. This to be stated together with reference number.

Wheels Valid only in group 2.

2. 1431 mm/56.33 ins front track
3. 1371 mm/54.24 ins rear track
51. 11.14kg/24.54 lbs weight
54. 139.7mm/5.50 ins rim width

FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

Manufacturer Jaguar

Model 3.8 'S' Type

F.I.A. Recognition No. 5017

Amendment No. 1

MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.	Reference No.	
1.	142.	Compression ratio 7:1 8:1

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Hubert Schroeder

Date amendment is valid from.....

Stamp of F.I.A./R.A.C.