

F.I.A. Recognition No. 619

Group 3 - GRAND 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

Manufacturer Jaguar Cars Limited Cylinder-capacity 4235 cm.³ 258.43 in.³
Serial No. of chassis/body 1R 20001 Model 4.2 'E' Type Series 2 Fixed Head
Serial No. of engine 7R 1001 Manufacturer Jaguar Cars Ltd. and open cars.
Recognition is valid from 1st July 1969 Manufacturer Jaguar Cars Ltd.
The manufacturing of the model described in this recognition form started on 5th August 1968
and the minimum production of 500 identical cars, in accordance with the specifications of
this form was reached on 26th September 1968. List 1969/5

Photograph A, $\frac{3}{4}$ view of car from front



F.I.A. Stamp

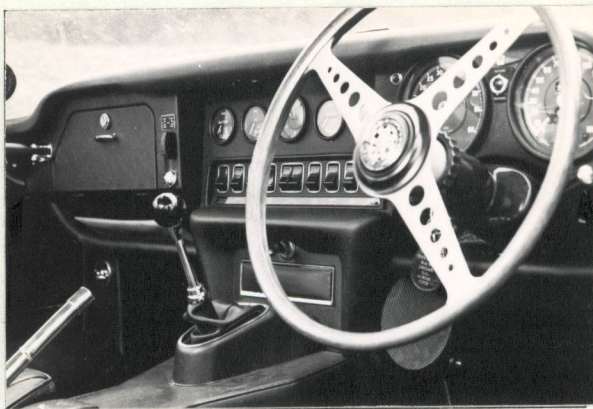
R.A.C. Stamp



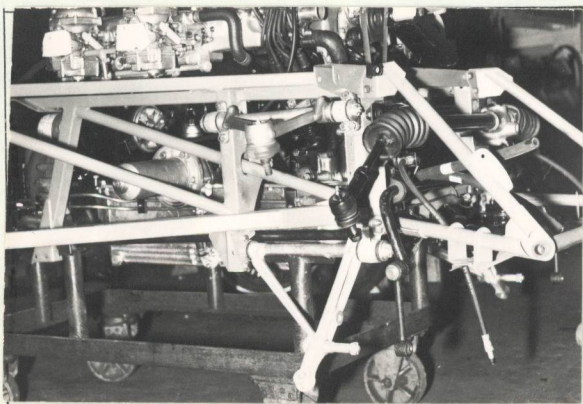
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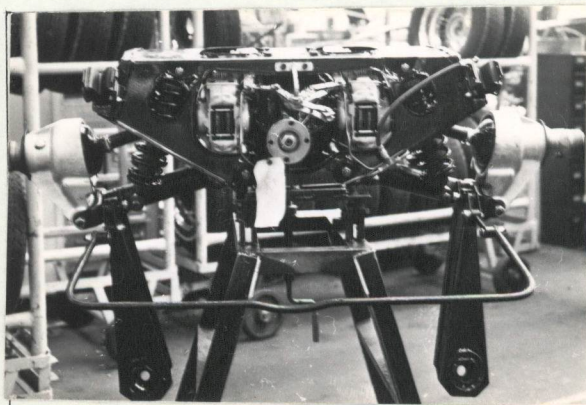
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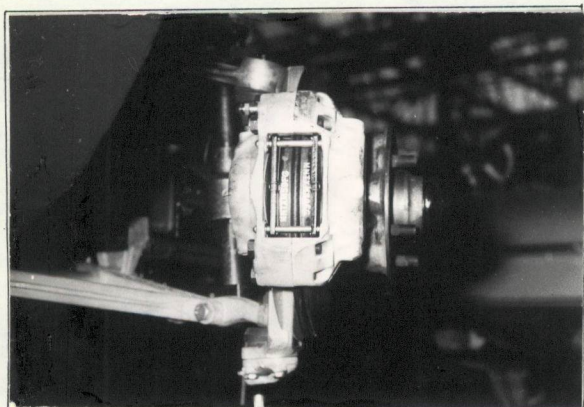
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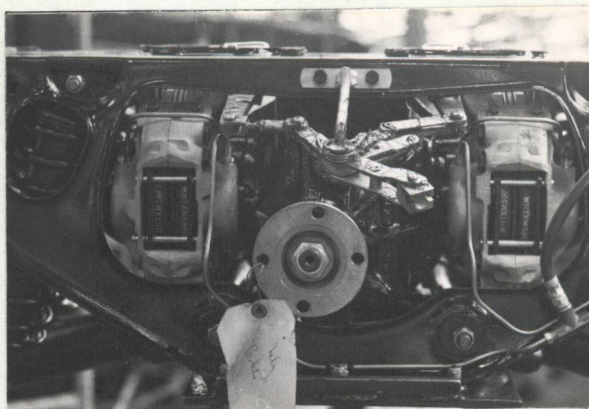
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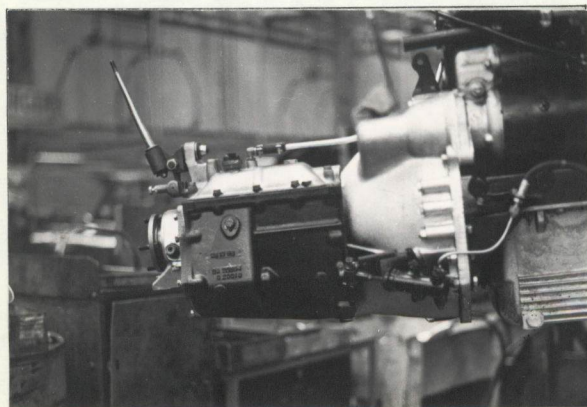
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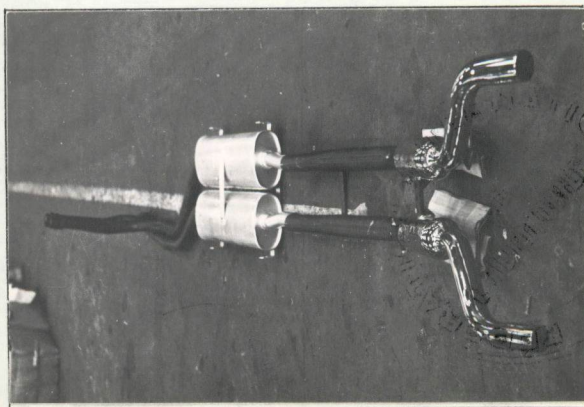
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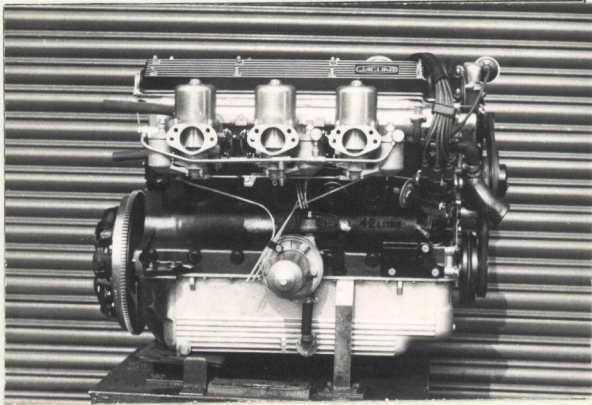
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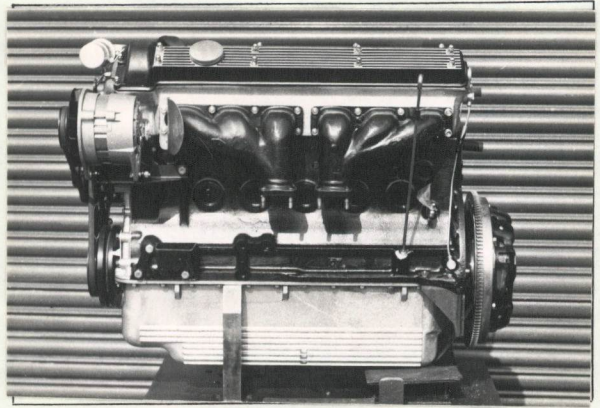
I



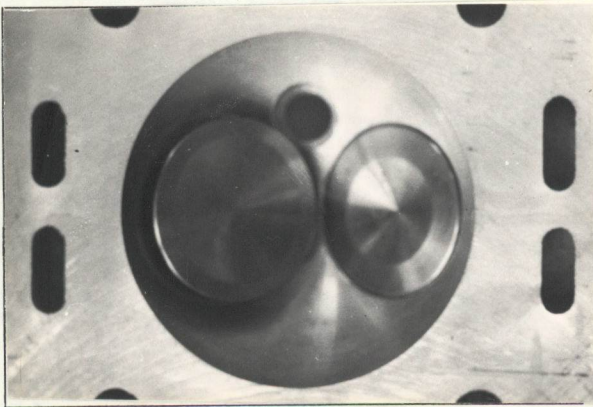
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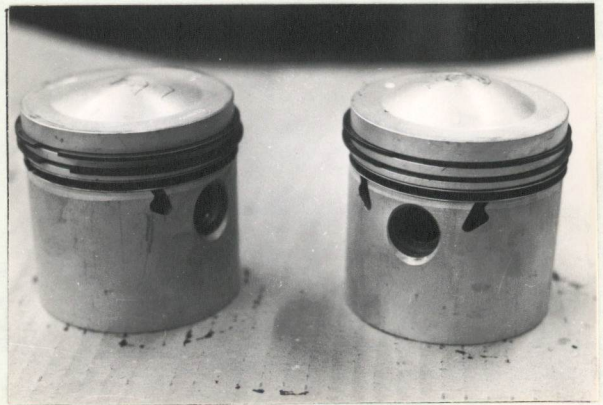
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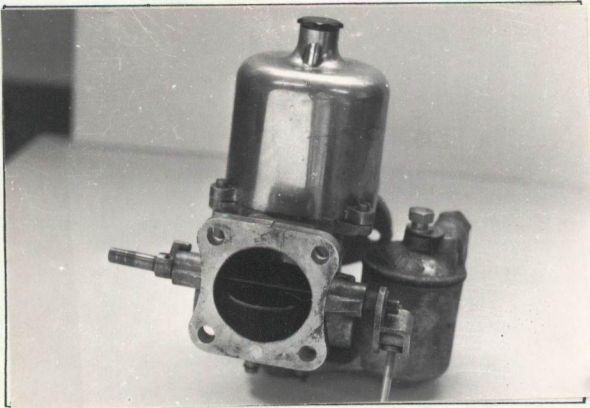
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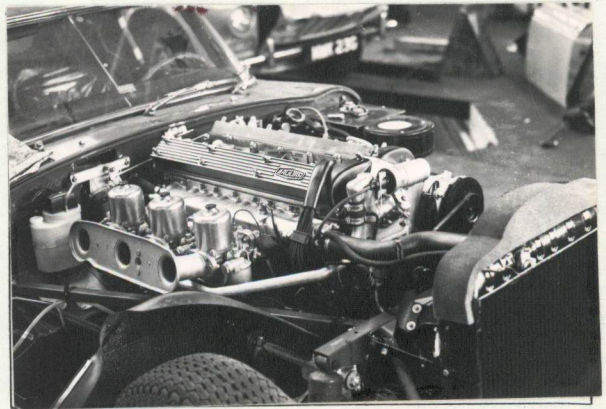
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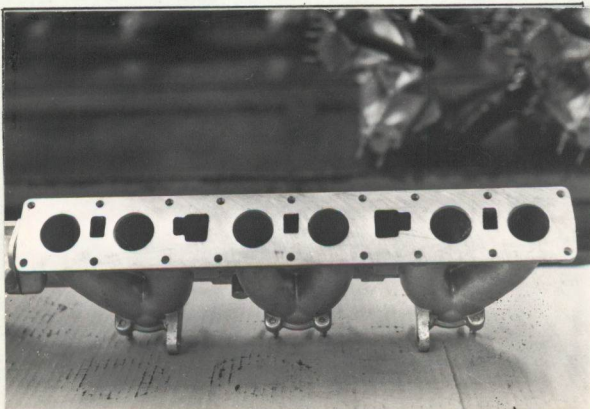
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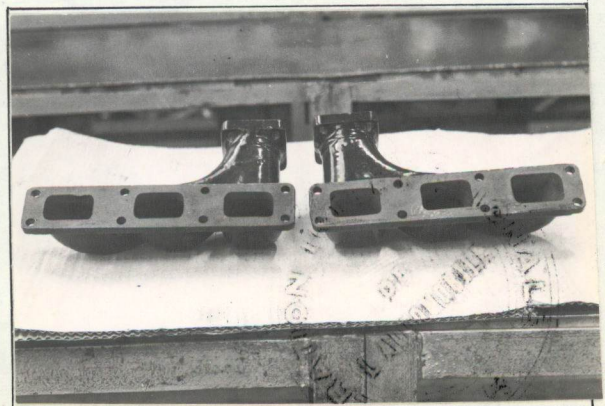
O



P



Q



Make Jaguar

Model 4.2 Litre 'E' Type Series 2

F.I.A. Rec. No. _____

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.

$10 \frac{47}{64}$ " $10 \frac{47}{64}$ "

$6 \frac{23}{64}$ "

$6 \frac{23}{64}$ "

3"

6 PORTS $\frac{5}{8}$ " DIA.

6 PORTS $1.625 \pm \frac{.005}{.000}$ "

DIA.

$9 \frac{3}{4}$ "

$9 \frac{3}{4}$ "

$5 \frac{31}{32}$ "

$5 \frac{31}{32}$ "

$2 \frac{3}{16}$ " $2 \frac{3}{16}$ " $\frac{3}{16}$ " R

$\frac{11}{16}$ "

$2 \frac{11}{16}$ "

$\frac{3}{16}$ " R

$\frac{11}{16}$ "

$1 \frac{15}{16}$ "

GENERAL MACHING DIMENSIONS TO BE $\pm .010$ "

SCALE: 1/4



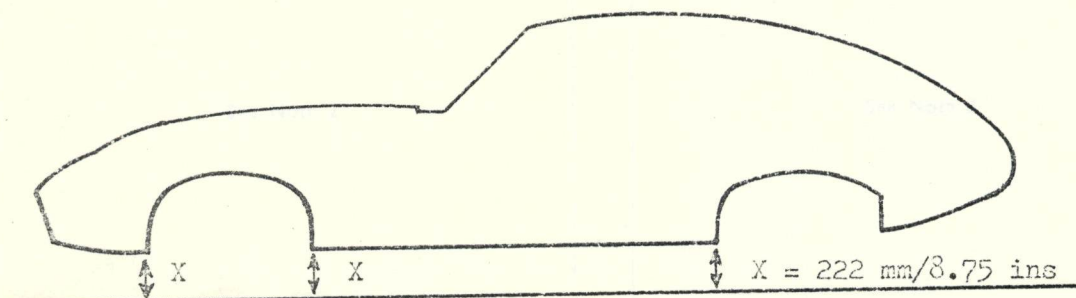
Make Jaguar Model 4.2 litre 'E' Type Series 2 F.I.A. Rec. No. _____

NOTE 1.

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

CAPACITIES AND DIMENSIONS

1. Wheelbase	2440 mm.	96 inches
2. Front track	1270 mm.	50 inches
3. Rear track	1270 mm.	50 inches



X is distance from underside of body to ground & is unaffected by track & wheel run width

4. Overall length of the car	445.0	cm.	175.30	inches			
5. Overall width of the car	166.0	cm.	65.25	inches			
6. Overall height of the car	122.0	cm.	48.125	inches			
7. Capacity of fuel tank (reserve included)	63.64	ltrs.	16 ³ / ₄	gall. U.S.	14	gall. Imp.	
8. Seating Capacity.	2						
9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools :	1305.5	F.H.Ckg.	2878	F.H.C.	lbs.	25.69	F.H.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	cm. ²	1 gallon Imp.	— 4.546	ltrs.
1 cubic inch/pouce cube	— 16.387	cm. ³	1 gallon US	— 3.785	ltrs.
1 pound/livre (lb)	— 453.593	gr.	1 hundred weight (cwt.)	— 50.802	kg.

Make JaguarModel 4.2 Litre 'E' TYPE
Series 2

F.I.A. Rec. No.

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction: ~~separate~~/unitary construction
 21. Unitary construction, material(s) Steel
 22. Separate construction, Material(s) of chassis Steel
 23. Material(s) of coachwork Steel
 24. Number of doors 2 Material(s) Steel
 25. Material(s) of bonnet Steel
 26. Material(s) of boot lid Steel
 27. Material(s) of rear-window Glass
 28. Material(s) of windscreen Glass(Laminated)
 29. Material(s) of front-door windows Glass
 30. Material(s) of 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. Ventilation : yes — ~~no~~
 41. Front seats, type of seat and upholstery Bucket/Leather
 42. Weight of front seat(s), complete with supports and rails, out of the car :

		12.53	kg.	26.75	lbs.
43. Rear seats, type of seat and upholstery					
44. Front bumper, material(s) <u>Steel</u>	Weight	1.8	kg.	4.0	lbs.
45. Rear bumper, material(s) <u>Steel</u>	Weight	6.84	kg.	15.1	lbs.

WHEELS

50. Type Wire
 51. Weight (per wheel, without tyre) 9.16 kg. 20.18 lbs.
 52. Method of attachment Centre lock hub cap
 53. Rim diameter 381 mm. 15 ins. 54. Rim width 127 mm. 5 ins.

STEERING

60. Type Rack
 61. Servo-assistance : ~~yes~~ — no
 62. Number of turns of steering wheel from lock to lock 2.5
 63. In case of servo-assistance 2.5



Make Jaguar Model 4.2 Litre 'E' Type Series 2 F.I.A. Rec. No. _____

SUSPENSION

70. Front suspension (photograph D), type Independent
 71. Type of spring Torsion Bar
 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) Yes
 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 master cylinder operating tandem slave cylinders
 93. Number of cylinders per wheel 3 **FRONT** 2 **REAR**
 94. Bore of wheel cylinder(s) 1 off 53.975 mm. 2.125 inches 2 off 38.132 mm. 1.5013 ins 42.86 mm. 1.6875 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
 99. Total area per brake mm.² sq. in. mm.² sq. in.

Disc Brakes

100. Outside diameter 284.16 mm. 11.1875 inches 263.52 mm. 10.375 inches
 101. Thickness of disc 12.7 mm. 0.5 inches 12.7 mm. .5 inches
 102. Length of brake linings 95.25 mm. 3.75 inches 79.28 mm. 3.125 inches
 103. Width of brake linings 50.8 mm. 2 inches 43.45 mm. 1.75 inches
 104. Number of pads per brake 2 2
 105. Total area per brake 8888.1 mm.² 13.78 sq. in. 6798.3 mm.² 10.54 sq. in.

Make Jaguar Model 4.2 litre 'E' Type Series 2 F.I.A. Rec. No.

ENGINE (photographs J and K)

130. Cycle Otto 131. Number of cylinders 6

132. Cylinder Arrangement In line

133. Bore 92.07 mm. 3.625 in. 134. Stroke 106 mm. 4.1732 in.

135. Capacity per cylinder 705.8 cm.³ 43.07 cu. in.

136. Total cylinder capacity 4235 cm.³ 258.43 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 8:1

143. Volume of one combustion chamber 98 cm.³ 6 cu. in.

144. Piston, material Aluminium 145. Number of rings 2

146. Distance from gudgeon pin centre line to highest point of piston crown 52.5 mm. 2.06 in.

147. Crankshaft : ~~mounted~~/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 8.5 ltrs. 15 pts. 9 quarts U.S.

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

155. Capacity of cooling system 15.36 ltrs. 27 pts. 16.1 quarts U.S.

156. Cooling fan (if fitted) dia. 2 off 25.4 cm. 10 in.

157. Number of blades of cooling fan 4 per fan

Bearings

158. Crankshaft main, type Steel backed shell dia. 69.85 m.m. 2.75 in.

159. Connecting rod big end, type Steel backed shell dia. 52.98 m.m. 2.08 in.

Weights

160. Flywheel (clean) 12.93 kg. 28.5 lbs.

161. Flywheel with clutch (all turning parts) 20.78 kg. 46 lbs.

162. Crankshaft 28.5 kg. 62.78 lbs. 163. Connecting rod 0.90 kg. 2 lbs.

164. Piston with rings and pin 0.737 kg. 1.625 lbs.

Make.....Jaguar.....

Model.....4.2 Litre 'E' Type
Series 2.....F.I.A. Rec. No.....**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. 0.375 in. 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.T.D.C.
 189. Air filter, type paper element (A.C.)

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. 0.375 in. 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 3 211. Type Horizontal
 212. Make SU 213. Model HD 8
 214. Number of mixture passages per carburettor 1
 215. Flange hole diameter of exit port(s) of carburettor 50.8 mm. 2 ins.
 216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example : SU)
 43 mm. 1.688 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.

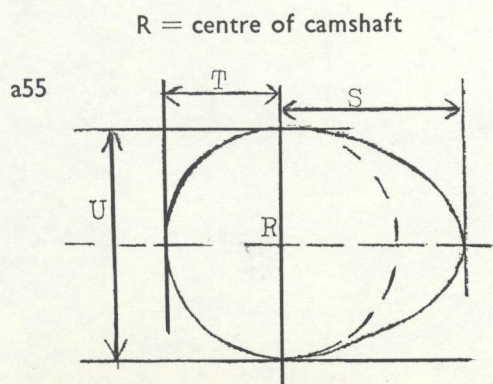
Make Jaguar Model 4.2 Litre 'E' Type Series 2 F.I.A. Rec. No.

ENGINE ACCESSORIES

230. Fuel pump : mechanical and/or electrical Electrical
231. No. fitted 1
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, type : ~~dynamo~~ / alternator—number fitted 1
237. Method of drive Belt
238. Voltage of generator 12 volts
239. Battery, number 1
240. Location Under the bonnet
241. Voltage of battery 12 volts

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

250. Max. engine output 265 (type of horsepower: BHP(SAE)) at 5400 r.p.m.
251. Max. r.p.m. 6000 output at that figure
252. Max. torque 283 lbs ft. at 4000 r.p.m.
253. Max. speed of the car 235 (approx) m./hour 145 (approx) miles/hour



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

4.2 Litre 'E' Type
Series 2

Make Jaguar Model Series 2 F.I.A. Rec. No.

DRIVE TRAIN

CLUTCH

260. Type of clutch Dry plate 261. No. of plates 1
262. Dia. of clutch plates 24.13 cm. 9.5 ins.
263. Dia. of linings, inside 16.2 cm. 6.375 ins.
- outside 24.13 cm. 9.5 ins.
264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

270. Manual type, make Jaguar Method of operation Hand change
271. No. of gear-box ratios forward 4 272. Synchronized forward ratios 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	2.933:1	$\frac{28}{21} \times \frac{33}{15}$						
2	1.905:1	$\frac{28}{21} \times \frac{30}{21}$						
3	1.389:1	$\frac{28}{21} \times \frac{25}{24}$						
4	1:1.00	- -						
5								
6								
reverse	3.378:1	$\frac{28}{21} \times \frac{38}{15}$						

278. Overdrive, type
279. Forward gears on which overdrive can be selected
280. Overdrive ratio

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 (optional)
293. Final drive ratio 3.54:1 or 3.07:1 Number of teeth 13/46 or 13/43

4.2 Litre 'E' Type
Make Jaguar Model Series 2 F.I.A. Rec. No.

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, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216 222, 225, 230, 250, 251, 252, 253, 255 photographs I, M and N and page 4.

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 preceding information. This to be stated together with reference number.

50. Wheels : Sculptured 6JK x 15

2.	1300mm/51.14 ins front track)	
3.	1300mm/51.14 ins rear track)	Wire
51.	11.14 kg/24.54 lbs weight)	Wheels
54.	139.7 mm/5.50 ins min width)	
2.	1277mm/50.28 ins front track)	
3.	1280mm/50.4 ins.rear track)	Sculptured
51.	10.43 kg/23.0 lbs weight)	Wheels
54.	152.4 mm/6.00 ins min width)	

Final Drive

293	3.31:1	13/43	3.77:1	13/49
	2.88:1	17/49	4.09:1	11/45

