

F.I.A. Rec. No. 506  
Group 3 - Grand Touring

ROYAL AUTOMOBILE CLUB

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

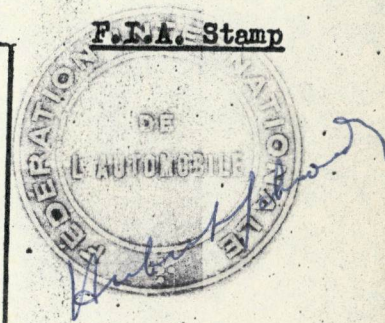
Form of recognition in accordance with  
Appendix J to the International Sporting Code of the

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Cylinder-capacity.....<sup>4235</sup>cm<sup>3</sup>.....<sup>258.4</sup>in<sup>3</sup>  
Manufacturer.....Jaguar Cars Limited.....Model.....4.2 'E' type fixed head coupe/open roadster  
Serial No. of chassis.....1E 1001.....Manufacturer.....Jaguar Cars Limited  
engine.....7E 1001.....Manufacturer.....Jaguar Cars Limited  
Recognition is valid from.....1st Jan '66.....List.....14.....

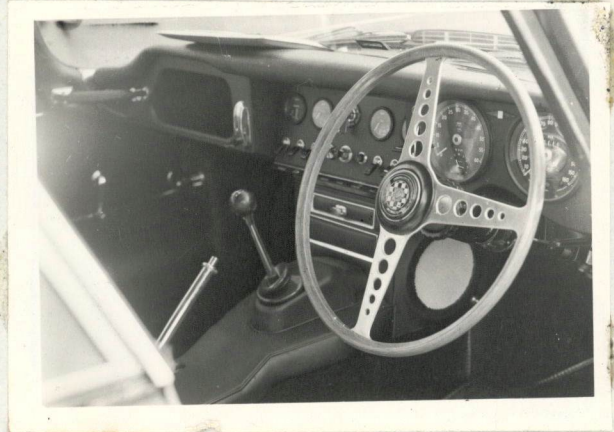
The manufacturing of the model described in this recognition form was started on 11th September 1964 and the minimum production of.....500.....identical cars, 65 in accordance with the specifications of this form was reached on.....19th February 1965.....

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

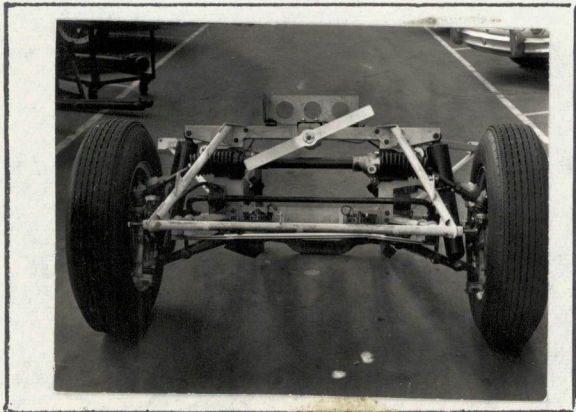


R.A.C. Stamp

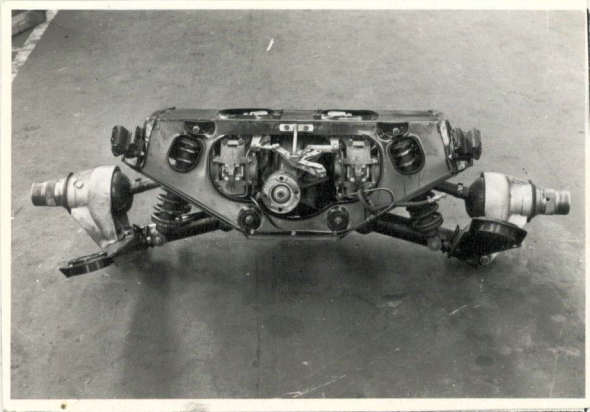




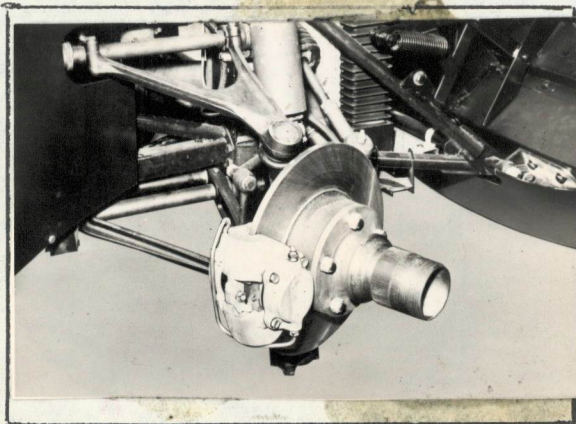
C



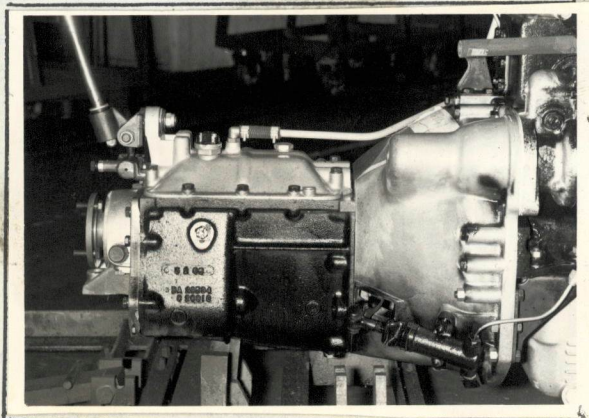
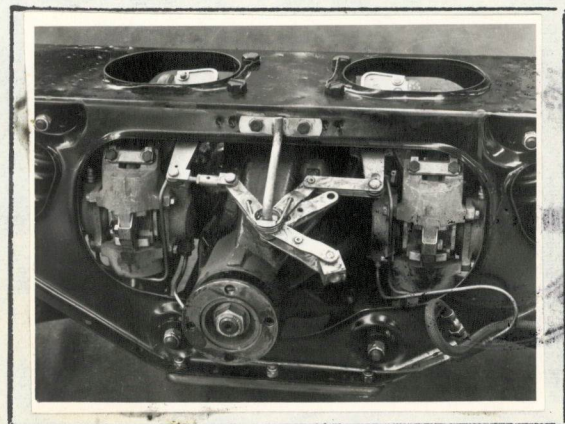
D



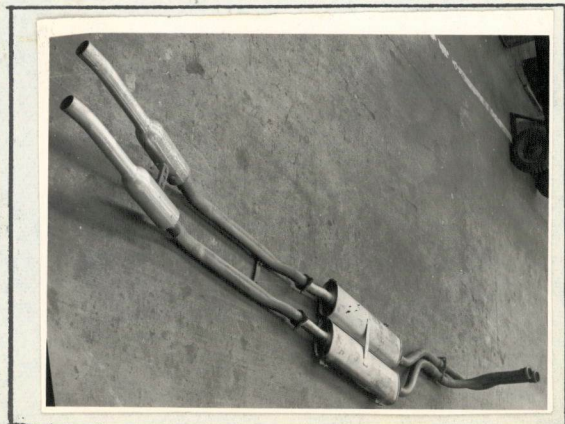
E



F



H



I

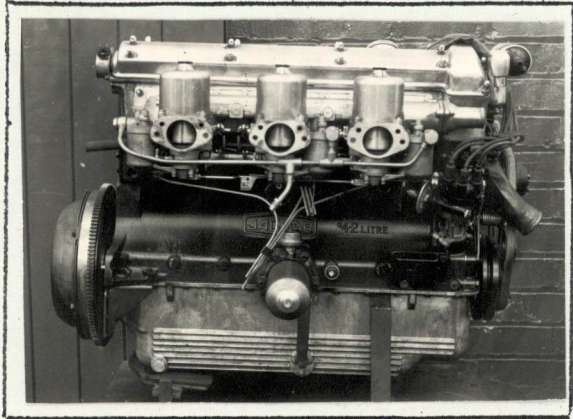


Make Jaguar

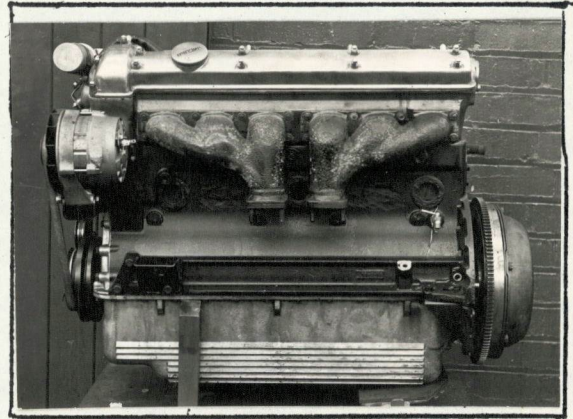
Model 4.2 'E' type

506  
F.I.A. Rec.no.

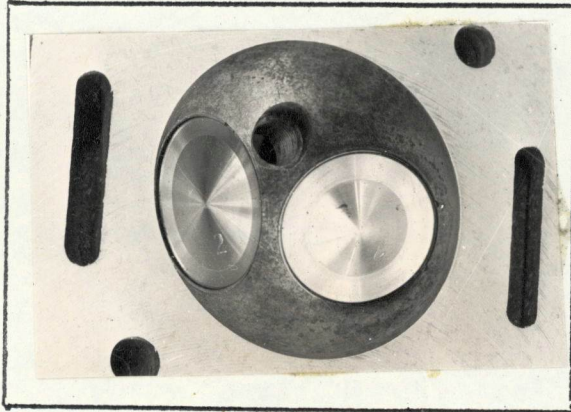
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K



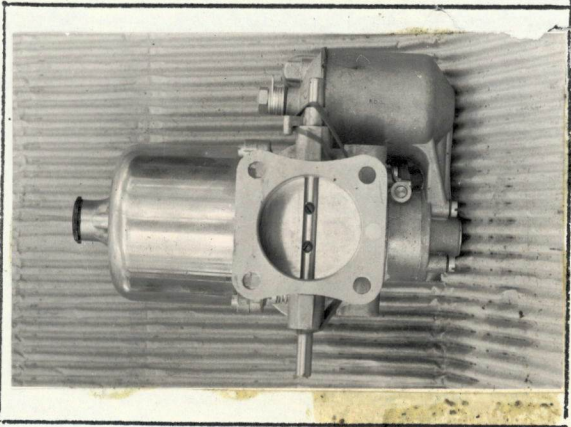
L



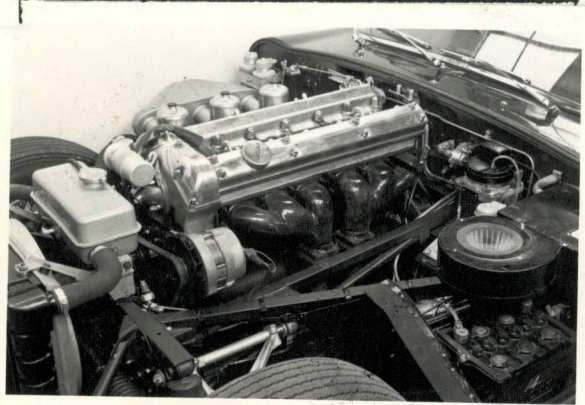
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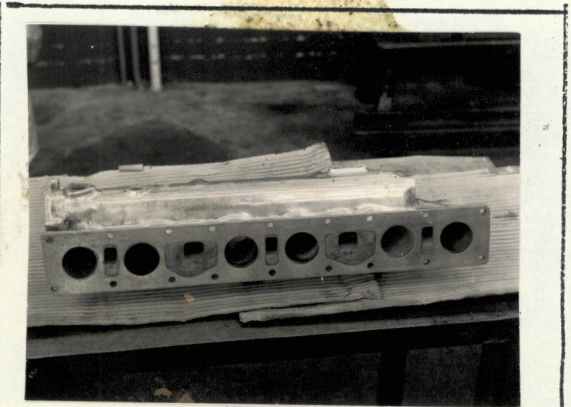
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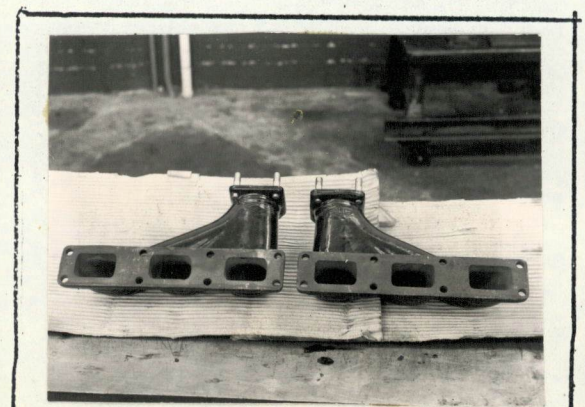
O



P



Q





Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.

10<sup>47</sup>/<sub>64</sub>"

10<sup>47</sup>/<sub>64</sub>"

6<sup>23</sup>/<sub>64</sub>"

6<sup>23</sup>/<sub>64</sub>"

Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.

6 PORTS | 5/8" DIA

6 PORTS | .005" / -.000" DIA

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

9<sup>3</sup>/<sub>4</sub>"

9<sup>3</sup>/<sub>4</sub>"

5<sup>3</sup>/<sub>32</sub>"

5<sup>3</sup>/<sub>32</sub>"

2<sup>3</sup>/<sub>16</sub>"

2<sup>3</sup>/<sub>16</sub>"

3/16" R



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

3/16"

2<sup>1</sup>/<sub>16</sub>"

3/16"

1<sup>5</sup>/<sub>16</sub>"

3/16" R

SCALE: 4/1

UNLIMITED MACHINING DIMENSIONS TO BE ±.010"



Make Jaguar

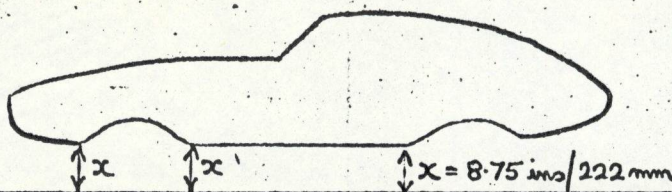
Model 4.2 'E' type

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

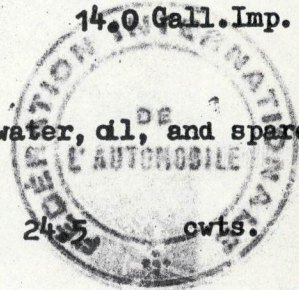
CAPACITIES AND DIMENSIONS

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 rim width variations.*

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	120.0	cm.	47.24	inches
7.	Capacity of fuel tank (reserve included)	63.5 ltrs.	16.5 Gall. US	14.0 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:	1247 kg.	2744 lbs.	24.5	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 <sup>2</sup>	1 gallon Imp.	- 4.546 ltrs
1 cubin inch/pouce cube	- 16.387 cm <sup>3</sup>	1 gallon US	- 3.785 ltrs
1 pound/livre (lb)	- 453.593 gr.	1 hundred weight(cwt)	- 50.802 kg



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 2                       | Material(s)                    |
| 25. Bonnet Steel                            | 26. Boot Lid Steel             |
| 27. Rear Window Glass                       | 28. Windscreen 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:

9.43 kg. 20.75 lbs.

43. Rear seats, type of upholstery

44. Front bumper, material(s) Steel Weight 1.8 kg. 4.0 lbs.

45. Rear bumper, material(s) Steel Weight 2.7 kg. 6.0 lbs.

WHEELS

50. Type Wire

51. Weight (per wheel, without tyre) 9.16 kg.

52. Method of attachment Centre lock hub cap

53. Rim diameter 381 mm. 15 ins.

54. Rim width 127 mm. 5 ins.

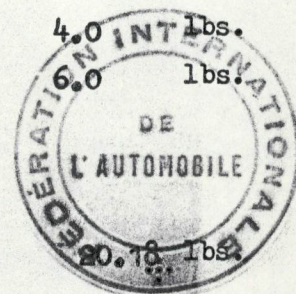
STEERING

60. Type Rack and pinion

61. Servo-assistance : ~~yes~~ - no

62. Number of turns of steering wheel from lock to lock 2.5

63. In case of servo-assistance.





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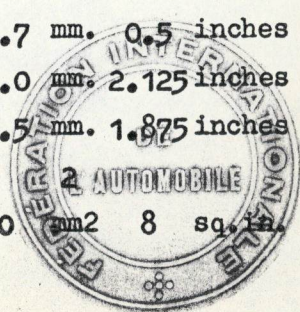
SUSPENSION

- 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

	FRONT		REAR	
93. Number of cylinders per wheel		2		2
94. Bore of wheel cylinder(s)	54.0	mm. 2.125 inches	44.5	mm. 1.75 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	279.4	mm. 11.0 inches	254.0	mm. 10.0 inches
101 Thickness of disc	9.5	mm. 0.375 inches	12.7	mm. 0.5 inches
102 Length of brake linings	54.0	mm. 2.125 inches	54.0	mm. 2.125 inches
103 Width of brake linings	47.5	mm. 1.875 inches	47.5	mm. 1.875 inches
104 Number of pads per brake		2		2
105 Total area per brake	5120	mm2 8 sq.in.	5120	mm2 8 sq.in.





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ENGINE (photographs J and K)

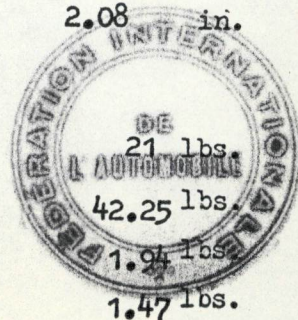
- 130. Cycle Otto
- 131. Number of cylinders 6
- 132. Cylinder Arrangement In line
- 133. Bore 92.07 mm. · 3.625 in. 134. Stroke 106 mm. 4.173 in.
- 135. Capacity per cylinder 706 cm<sup>3</sup> 43.1 cu.in.
- 136. Total cylinder capacity 4235 cm<sup>3</sup> 258.43 cu.in.
- 137. Material(s) of cylinder 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<sup>3</sup> 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 mm. 2.24 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 8.5 ltrs. 15 pts. 9 Quarts U.S.
- 153. Oil cooler : ~~yes~~ / no 154. Method of engine cooling Water
- 155. Capacity of cooling system 18 ltrs. 32 pts. 19.25 quarts U.S.
- 156. Cooling fan (if fitted) dia. 40.6 cm. 16 in.
- 157. Number of blades of cooling fan 2

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 kg.
- 161. Flywheel with clutch (all turning parts). 19.2 kg.
- 162. Crankshaft 28.5 kg. 62.78 lbs. 163. Connecting rod 0.88 kg.
- 164. Piston with rings and pin 0.67 kg.







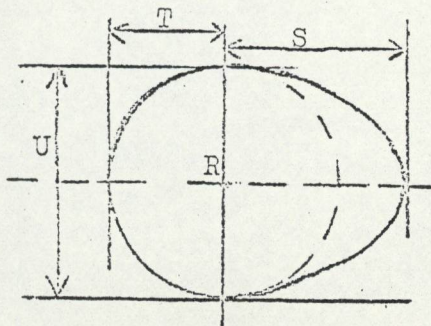


ENGINE ACCESSORIES

- 230. Fuel pump : ~~mechanical and/or~~ electric.
- 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, number fitted 1
- 237. Method of drive Belt
- 238. Voltage of generator 12 volts.
- 239. Battery, number 1
- 240. Location Under 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; <sup>S.A.E.</sup> B.H.P. ) at 5500 rpm
- 251. Max. rpm 6000 output at that figure 255 B.H.P.
- 252. Max torque 283 pounds feet at 4000 rpm
- 253. Max speed of the car 250 km/hour 155 miles/hour



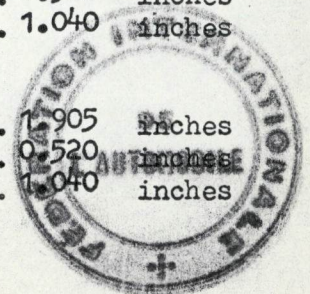
R = centre of camshaft.

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





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DRIVE TRAIN

CLUTCH

- 260. Type of clutch Dry plate
- 261. No of plates 1
- 262. Dia. of clutch plates 25.4 cm. 10.0 ins..
- 263. Dia. of linings, inside 21.4 cm. 8.4 ins.
- outside 25.4 cm. 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 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	2.68:1	$\frac{28}{23} \times \frac{33}{15}$			3.04:1	$\frac{29}{21} \times \frac{33}{15}$		
2	1.74:1	$\frac{28}{23} \times \frac{30}{21}$			1.97:1	$\frac{29}{21} \times \frac{30}{21}$		
3	1.27:1	$\frac{28}{23} \times \frac{26}{25}$			1.33:1	$\frac{29}{21} \times \frac{25}{26}$		
4	1.00:1	-			1.00:1	-		
5								
6								
re-verse	3.08:1	$\frac{28}{23} \times \frac{38}{15}$			3.49:1	$\frac{29}{21} \times \frac{38}{15}$		

- 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 Power-Lok
- 293. Final drive ratio 3.54:1 or 3.07:1
- Number of teeth 13/46 or 14/43





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

7. Larger fuel tank 109 litres 28.8 U.S.gallons 24.0 Imperial gallons

Wheels.

- 2. 1300 mm/51.14 ins front track
- 3. 1300 mm/51.14 ins rear track
- 51. 11.14kg/24.54 lbs weight
- 54. 139.7mm/ 5.50 ins rim width

Brakes.

- 94. 47.6 mm/ 1.875 ins bore rear wheel cylinders
- 100. 308.0 mm/12.125 ins diameter front discs
- 101. 12.7 mm/ 0.500 ins thick front discs
- 102. 60.3 mm/ 2.375 ins length front pads
- 103. 60.3 mm/ 2.375 ins width front pads
- 105. 7250 sq mm/11.2 sq ins area per brake

Final drive.

- 293. 3.31:1 ratio 13/43 teeth
- 4.09:1 ratio 11/45 teeth
- 3.77:1 ratio 13/49 teeth

