

F.I.A. Recognition No .. **3036**
 Group .. **3**

FEDERATION INTERNATIONALE DE L' AUTOMOBILE

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

Manufacturer .. **AB VOLVO** Cylinder-capacity .. **1986** cm³ .. **121.2** in³
 Model .. **VOLVO 1800E**
 Serial No of chassis .. **30001** Manufacturer .. **AB VOLVO**
 engine .. **55** Manufacturer .. **AB VOLVO**
 Recognition is valid from .. **1/4/71** List .. **71/1**

The manufacturing of the model described in this recognition form was started on **3/9** 19 **69**
 and the minimum production of .. **500** identical cars, in accordance with the specifica-
 tions of this form was reached on .. **11/12** 19 **69**

Photograph A, 3/4 view of car from front



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

Variants

Normal evolution of the type

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

Stamp and signature of the
 National Sporting Authority

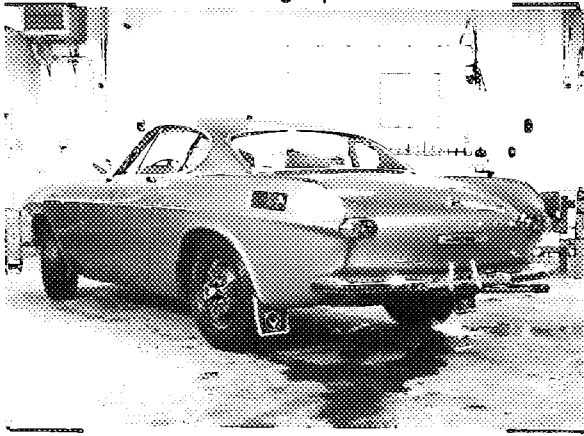
Stamp and signature of the F.I.A.

SVENSKA SÄNSPORTFÖRBUNDET
 SVEDESKA SVENSKA SÄNSPORTFÖRBUNDET

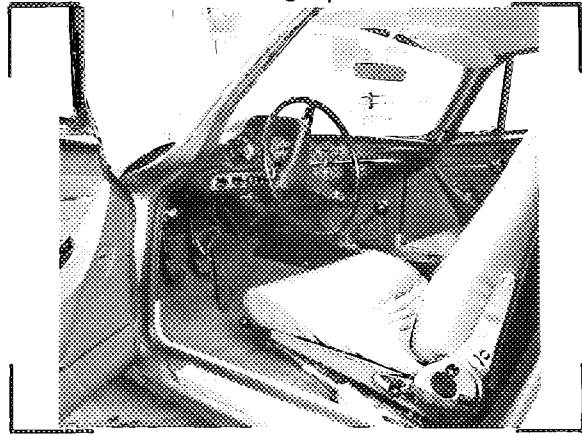
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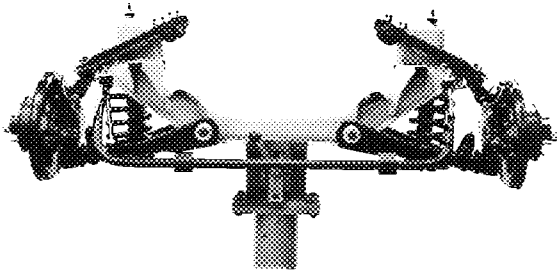
Photograph B



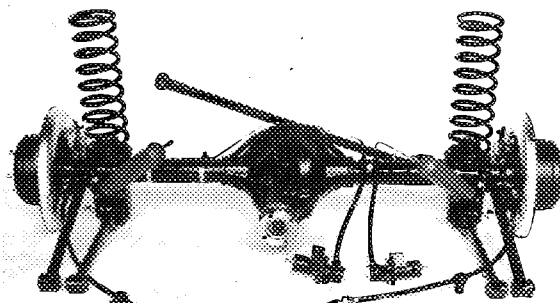
Photograph C



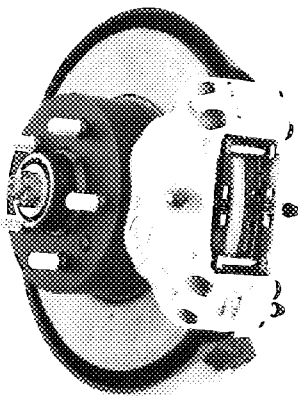
Photograph D



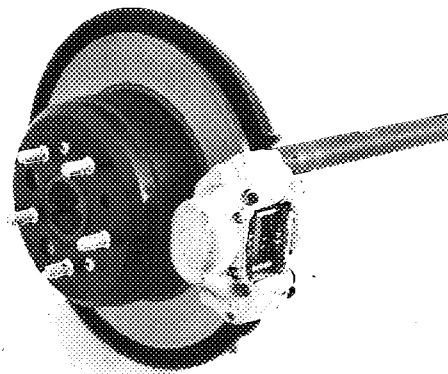
Photograph E



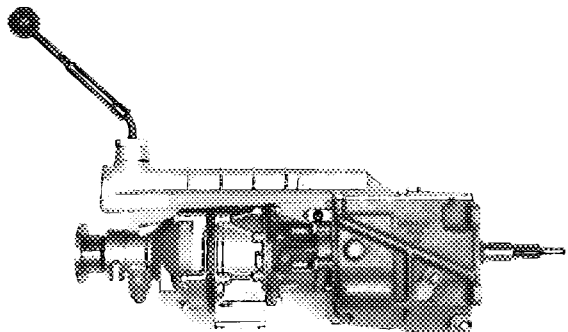
Photograph F



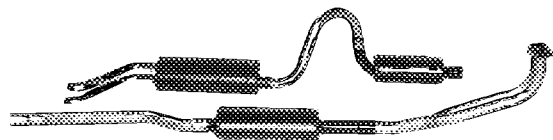
Photograph G



Photograph H



Photograph I



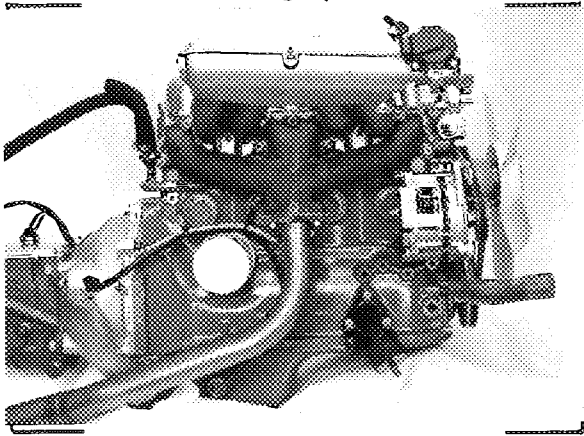
Make VOLVO

Model

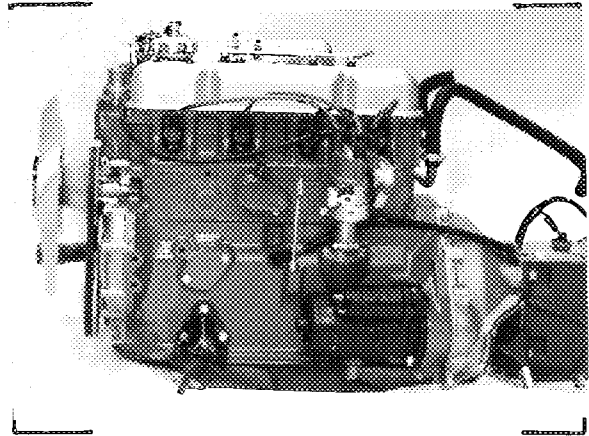
1800E

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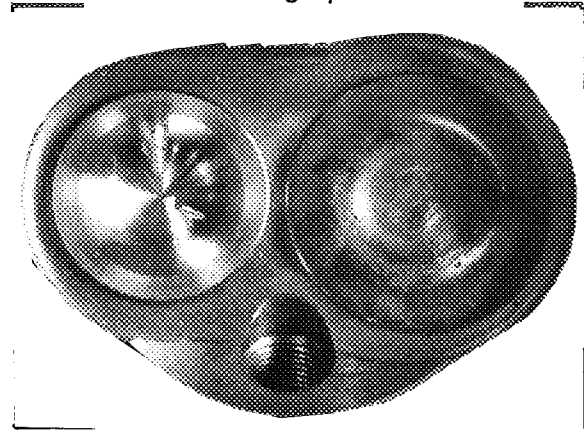
Photograph J



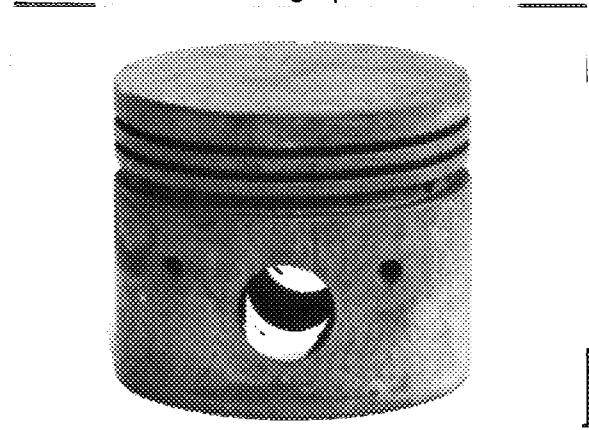
Photograph K



Photograph L

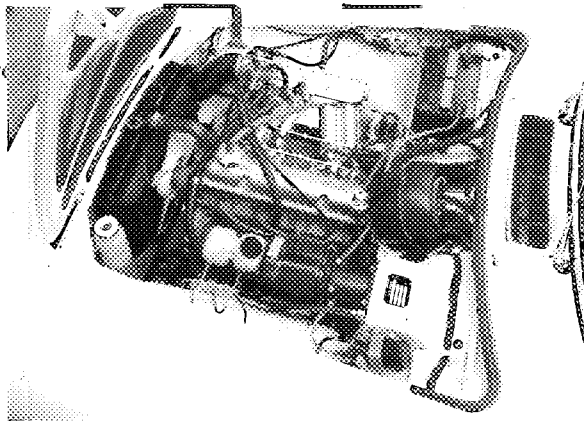


Photograph M



Photograph N

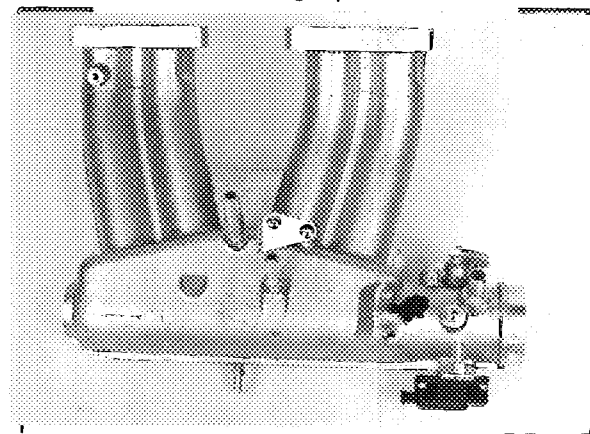
Carburettor (view from
manifold)



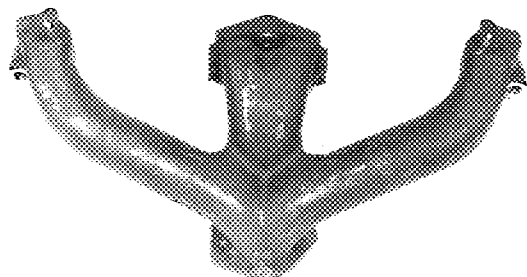
Photograph O

with all accessories,
or removed.

Photograph P



Photograph Q



Make

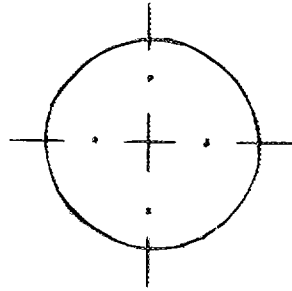
VOLVO

Model

1800E

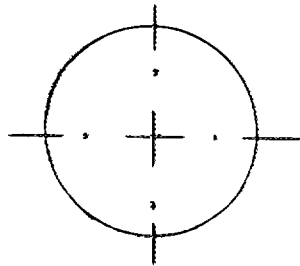
F.I.A. Rec.No

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



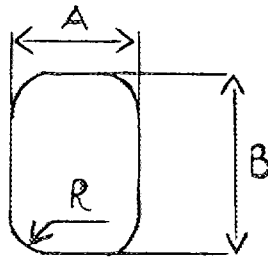
$$\varnothing 41 \begin{matrix} + \\ - \end{matrix} \begin{matrix} 0.25 \\ 0 \end{matrix}$$

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



$$\varnothing 42.1 \begin{matrix} + \\ - \end{matrix} 0.3$$

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

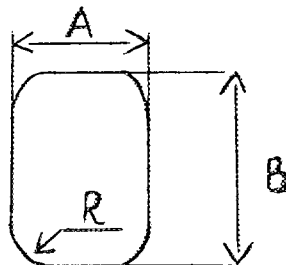


$$A = 27 \begin{matrix} + \\ - \end{matrix} 0.7$$

$$B = 40 \begin{matrix} + \\ - \end{matrix} 0.7$$

$$R = 5 \begin{matrix} + \\ - \end{matrix} 1$$

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



$$A = 25 \begin{matrix} + \\ - \end{matrix} 0.8$$

$$B = 40 \begin{matrix} + \\ - \end{matrix} 0.7$$

$$R = 4 \begin{matrix} + \\ - \end{matrix} 1$$

Make VOLVO

Model 1800E

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IMPORTANT - the underlined items must be stated in two measuring systems, one of which must be the metric system. See conversion table hereafter.

CAPACITIES AND DIMENSIONS

1. <u>Wheelbase</u>	2450	mm	96,5	inches
2. <u>Front track</u>	1315	mm	51.8	inches *
3. <u>Rear track</u>	1315	mm	51,8	inches *
4. Overall length of the car	435	cm		inches
5. Overall width of the car	170	cm		inches
6. Overall height of the car	128	cm		inches
7. <u>Capacity of fuel tank</u> (reserve included)				45 ltrs
	12	Gallon US	10	Gallon Imp.
8. Seating capacity	2			
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:				
	1110	kg	2450	lbs
			21,85	cwt

*) 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 recognizable 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.

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 square inch/pouce carré	-	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

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction : ~~separate~~ / unitary construction
 21. Unitary construction, material (s) STEEL
- Separate construction
22. Material (s) of chassis
 23. Material (s) of coachwork
 24. Number of doors 2 Material (s) SHEET-METAL
 25. Material (s) of bonnet SHEET-METAL
 26. Material (s) of boot lid SHEET-METAL
 27. Material (s) of rear-window TEMPERED GLASS
 28. Material (s) of windscreen LAMINATED GLASS
 29. Material (s) of front-door windows TEMPERED GLASS
 30. Material (s) of rear-door windows
 31. Sliding system of door windows WINDOW WINDERS
 32. Material (s) of rear-quarter light TEMPERED 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 SEPARATE SEATS, LEATHER
 42. Weight of front seat (s), complete with supports and rails, out of the car :
- | | |
|-------|-----|
| 12 kg | lbs |
|-------|-----|
43. Rear seats, type of seat and upholstery BENCH, VINYL
 44. Front bumper, material (s) Chrome-plated steel Weight 5.7 kg lbs
 45. Rear bumper, material (s) Chrome-plated steel Weight 5.7 kg lbs

WHEELS

50. Type DISC WHEEL
 51. Weight (per wheel, without tyre) 9.9 kg lbs
 52. Method of attachment BY 5 NUTS
 53. Rim diameter 381 mm 15 inches
 54. Rim width 127 mm 5 inches

STEERING

60. Type CAM AND ROLLER
 61. Servo-assistance : ~~yes~~ - no
 62. Number of turns of steering wheel from lock to lock 3 1/4
 63. In case of servo-assistance

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SUSPENSION

- 70. Front suspension (photogr. D), type INDIVIDUAL
- 71. Type of spring COIL
- 72. Stabiliser (fitted) YES
- 73. Number of shockabsorbers 2
- 74. Type TELESCOPIC
- 78. Rear suspension (photogr. E), type RIGID AXLE
- 79. Type of spring COIL
- 80. Stabiliser (if fitted)
- 81. Number of shockabsorbers 2
- 82. Type TELESCOPIC

BRAKES (photographs F and G)

- 90. Method of operation HYDRAULIC, DUAL-CIRCUIT brake system
- 91. Servo-assistance (if fitted), type VACUUM SERVO
- 92. Number of hydraulic master cylinders TANDEM MASTER CYLINDER

		FRONT		REAR	
93. Number of cylinders per wheel	4			2	
94. Bore of wheel cylinder (s)	4 x 36	mm	in.	2x36 mm	in.
Drum brakes					
95. Inside diameter		mm	in.	mm	in.
96. Length of brake linings		mm	in.	mm	in.
97. Width of brake linings		mm	in.	mm	in.
98. Number of shoes per brake					
99. Total area per brake		mm ²	sq.in.	mm ²	sq.in.
Disc brakes					
100. Outside diameter	272	mm	in.	272 mm	in.
101. Thickness of disc	12.8	mm	in.	9.6 mm	in.
102. Length of brake linings	75	mm	in.	57 mm	in.
103. Width of brake linings	50	mm	in.	42.5 mm	in.
104. Number of pads per brake	2			2	
105. Total area per brake	7300	mm ²	sq.in.	4650 mm ²	sq.in.

ENGINE (photographs J and K)

- 130. Cycle 4-STROKE
- 131. Number of cylinders 4
- 132. Cylinder arrangement IN LINE
- 133. Bore 88.9 ± 0.01 mm 3.5 in.
- 134. Stroke 80.0 ± 0.01 mm 3.15 in.
- 135. Capacity per cylinder 496.6 cm³ 30.3 cu.in.
- 136. Total cylinder-capacity 1986 cm³ 121.2 cu.in.
- 137. Material (s) of cylinder block CAST IRON
- 138. Material (s) of sleeves (if fitted)
- 139. Cylinder-head, material (s) CAST IRON Number fitted
- 140. Number of inlet ports 4
- 141. Number of exhaust ports 4
- 142. Compression ratio 10.5:1
- 143. Volume of one combustion chamber 42 cm³ cu.in.
- 144. Piston, material LIGHT ALLOY
- 145. Number of rings 3
- 146. Distance from gudgeon pin centre line to highest point of piston crown
 46 ± 0.1 mm inches
- 147. Crankshaft : ~~casted~~ / stamped
- 148. Type of crankshaft : integral/.....
- 149. Number of crankshaft main bearings 5
- 150. Material of bearing cap CAST IRON
- 151. System of lubrication : ~~dry sump~~ / oil in sump
- 152. Capacity, lubricant $3 \frac{3}{4}$ ltrs pts quarts US
- 153. Oil cooler: ~~yes~~ / no
- 154. Method of engine cooling WATER
- 155. Capacity of cooling system 10.0 ltrs pints quarts US
- 156. Cooling fan (if fitted), dia. 35.5 cm inches
- 157. Number of blades of cooling fan 5

Bearings

- 158. Crankshaft main, type Dia. 63.45 mm copper-lead-indium in.
- 159. Connecting rod big end, type Dia. 54.1 mm copper-lead-indium in.

Weights

- 160. Flywheel (clean) 9.9 kg lbs
- 161. Flywheel with clutch (all turning parts) 15.9 kg lbs
- 162. Crankshaft 16.7 kg lbs
- 163. Connecting rod 0.680 kg lbs
- 164. Piston with rings and pin 0.71 kg lbs

FOUR STROKE ENGINES

170. Number of camshafts	1
171. Location	CYLINDER BLOCK
172. Type of camshaft drive	GEARS
173. Type of valve operation	PUSH ROD

INLET (see page 4)*

180. Material (s) of inlet manifold	ALUMINIUM
181. <u>Diameter of valves</u>	44 mm 1.74 inches
182. <u>Max. valve lift</u>	10.8 mm in.
183. Number of valve springs	1
184. Type of spring	COIL
185. Number of valves per cylinder	1
186. Tappet clearance for checking timing (cold)	0.4 mm inches
187. Valves open at (with tolerance for tappet clearance indicated)	31° B. T. D. C.
188. Valves close at (with tolerance for tappet clearance indicated)	73° A. B. D. C.
189. Air filter, type	paper

EXHAUST (see page 4)

195. Material (s) of exhaust manifold	CAST IRON
196. <u>Diameter of valves</u>	35 mm 1.38 inches
197. <u>Max. valve lift</u>	10.8 mm 0.43 in.
198. Number of valve springs	1
199. Type of spring	COIL
200. Number of valves per cylinder	1
201. Tappet clearance for checking timing (cold)	0.4 mm inches
202. Valves open at (with tolerance for tappet clearance indicated)	73° B. T. D. C.
203. Valves close at (with tolerance for tappet clearance indicated)	31° A. B. D. C.

CARBURETION (photograph N)

210. Number of carburettors fitted	
211. Type	
212. Make	
213. Model	
214. Number of mixture passages per carburettor	
215. Flange hole diameter of exit port (s) of carburettor	mm in.
216. Minimum diameter of venturi / minimum diam. with piston at maximum height	mm inches

INJECTION (if fitted)

220. Make of pump	BOSCH (FEEDING PUMP)
221. Number of plungers	
222. Model or type of pump	ROTOR PUMP
223. Total number of injectors	4, (electronically controlled)
224. Location of injectors	CYLINDER HEAD
225. Minimum diameter of inlet pipe	41 mm inches

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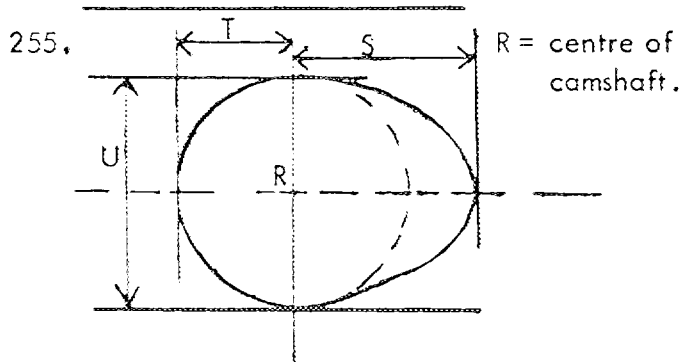
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ENGINE ACCESSORIES

- 230. Fuel pump : ~~mechanical and for~~ 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, type : ~~alternator~~ /alternator - number fitted 1
- 237. Method of drive BELT DRIVEN
- 238. Voltage of generator 12 volts
- 239. Battery, number 1
- 240. Location Engine room, right side
- 241. Voltage of battery 12 volts

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

- 250. Max. engine output 120 (type of horsepower: DIN) at 6,000 rpm
- 251. Maximum rpm 6,000 output at that figure 120 DIN
- 252. Maximum torque 17 KGM ~~xx~~ DIN at 3,500 rpm
- 253. Maximum speed of the car km/hour miles/hour



<u>Inlet cam</u>			
S =	21.3	mm	inches
T =	14.15	mm	inches
U =	28.3	mm	inches
<u>Exhaust cam</u>			
S =	21.3	mm	inches
T =	14.15	mm	inches
U =	28.3	mm	inches

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DRIVE TRAIN
CLUTCH

- 260. Type of clutch DRY DISC
- 261. No of plates 1
- 262. Dia. of clutch plates 21.6 cm inches
- 263. Dia. of linings, inside 14.0 cm in. outside cm 21.6 in.
- 264. Method of operating clutch MECHANICAL

GEAR BOX (photograph H)

- 270. Manual type, make VOLVO M41 Method of operation
- 271. No of gear-box ratios forward 4
- 272. Synchronized forward ratios 4
- 273. Location of gear-shift FLOOR LEVER (Remote control)
- 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	3.13:1	33:15						
2	1.99:1	28:20						
3	1.36:1	22:23						
4	1.0:1							
5								
6								
reverse	3.25:1	32:19						

- 278. Overdrive, type LAYCOCK TYPE "J", PLANETARY GEAR
- 279. Forward gears on which overdrive can be selected 4TH GEAR ONLY
- 280. Overdrive ratio 0.797:1

FINAL DRIVE

- 290. Type of final drive HYPOID
- 291. Type of differential RIGID AXLE
- 292. Type of limited slip differential (if fitted)
- 293. Final drive ratio 4.3:1
- Number of teeth 43:10

Make VOLVO

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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, 236, 250, 251, 252, 253, 255, and photographs I, M and N. and page 4.

During the scrutineering of cars entered in group 4 (Sportcars) 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.

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