

FEDERATION INTERNATIONALE DE L' AUTOMOBILE

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

Manufacturer .. Volvo Car BV .....	Cylinder-capacity .. 1289 .....	cm <sup>3</sup> .. 78.6 .....	in <sup>3</sup> ..
Serial No of chassis .. 6675 .....	Model .. 66 1300 GL .....	Manufacturer .. Volvo Car BV .....	
engine .. B130 .....	Manufacturer .. Volvo Car BV .....	Manufacturer .. Volvo Car BV .....	
Recognition is valid from .....	List .....		

The manufacturing of the model described in this recognition form was started on 1/8 .. 19 75  
 and the minimum production of 5000 .. identical cars, in accordance with the specifica-  
 tions of this form was reached on 28/10 .. 19 75

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

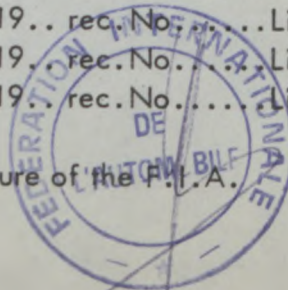
on .....	19..	rec.No .....	List .....	on .....	19..	rec.No .....	List .....
on .....	19..	rec.No .....	List .....	on .....	19..	rec.No .....	List .....
on .....	19..	rec.No .....	List .....	on .....	19..	rec.No .....	List .....
on .....	19..	rec.No .....	List .....	on .....	19..	rec.No .....	List .....
on .....	19..	rec.No .....	List .....	on .....	19..	rec.No .....	List .....

Stamp and signature of the  
 National Sporting Authority

**SVENSKA BILSPORTFÖRBUNDET**  
 THE SWEDISH AUTOMOBILE-SPORT FEDERATION

*[Handwritten signature]*

Stamp and signature of the F.I.A.



Photograph B



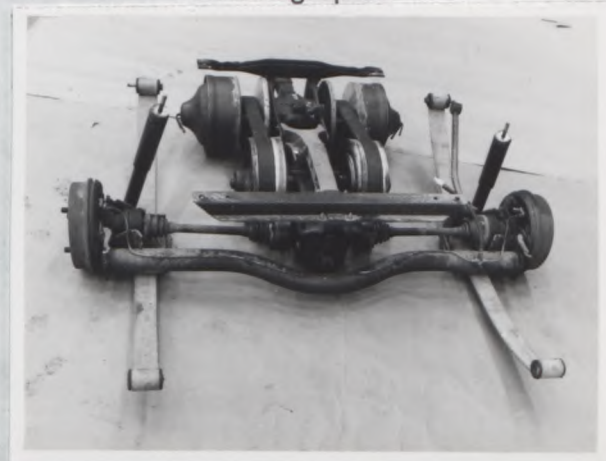
Photograph C



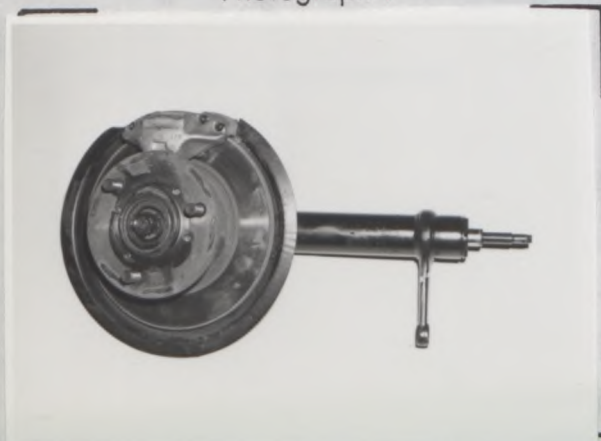
Photograph D



Photograph E



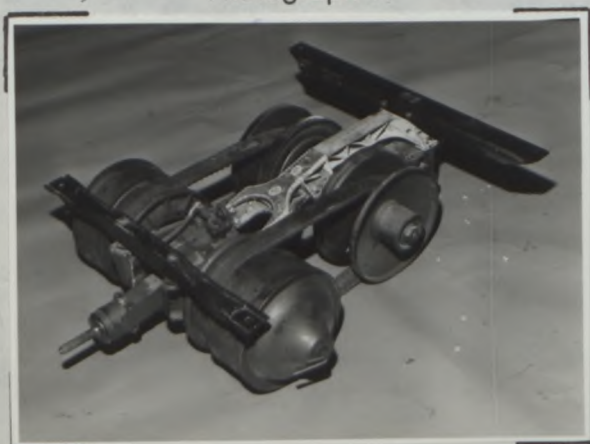
Photograph F



Photograph G



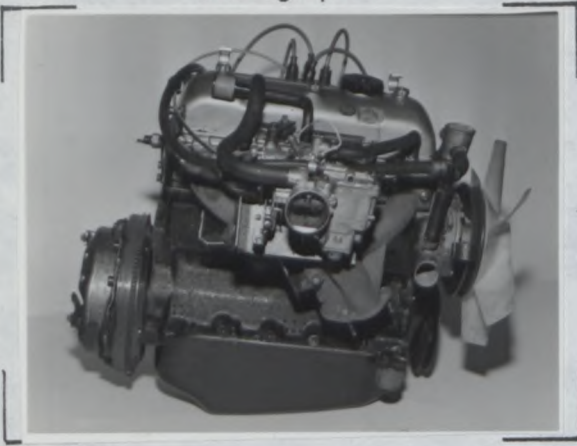
Photograph H



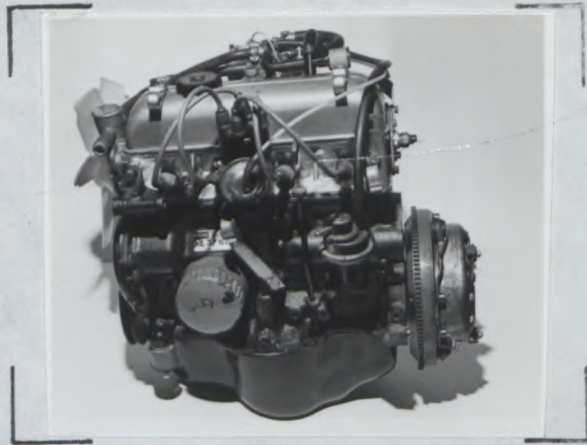
Photograph I



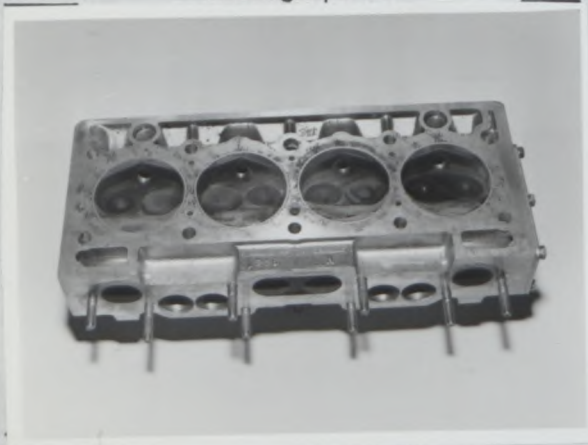
Photograph J



Photograph K



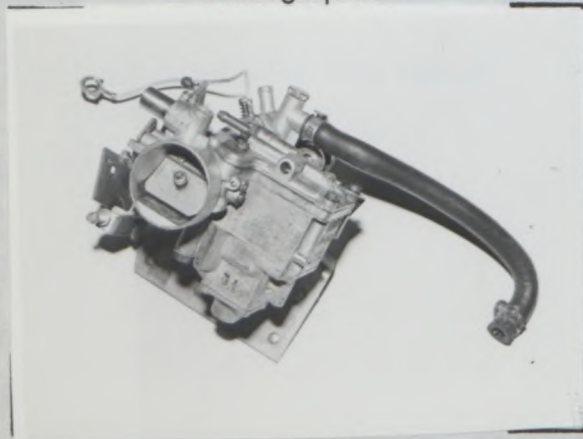
Photograph L



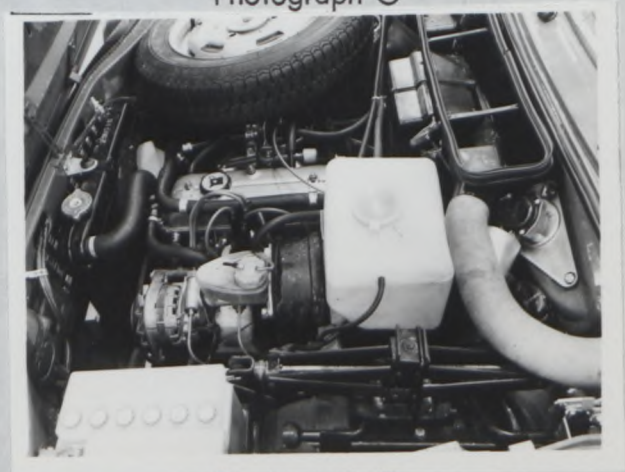
Photograph M



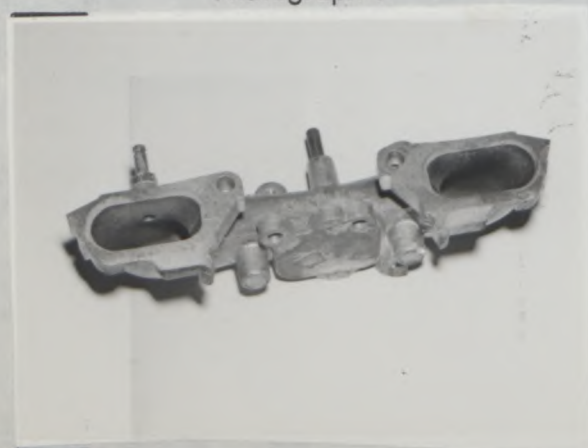
Photograph N



Photograph O



Photograph P



Photograph Q



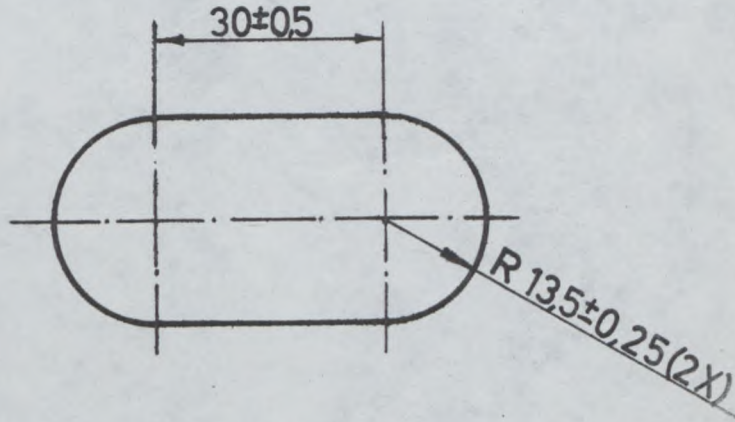
FEDERATION INTERNATIONALE  
DE  
L'AUTOMOBILE

Make Volvo

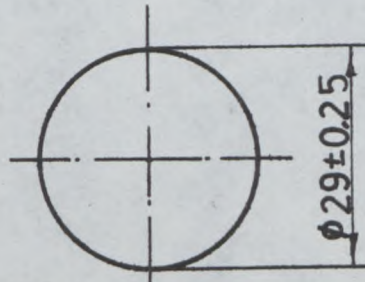
Model 66 1300 GL

F.I.A. Rec.No

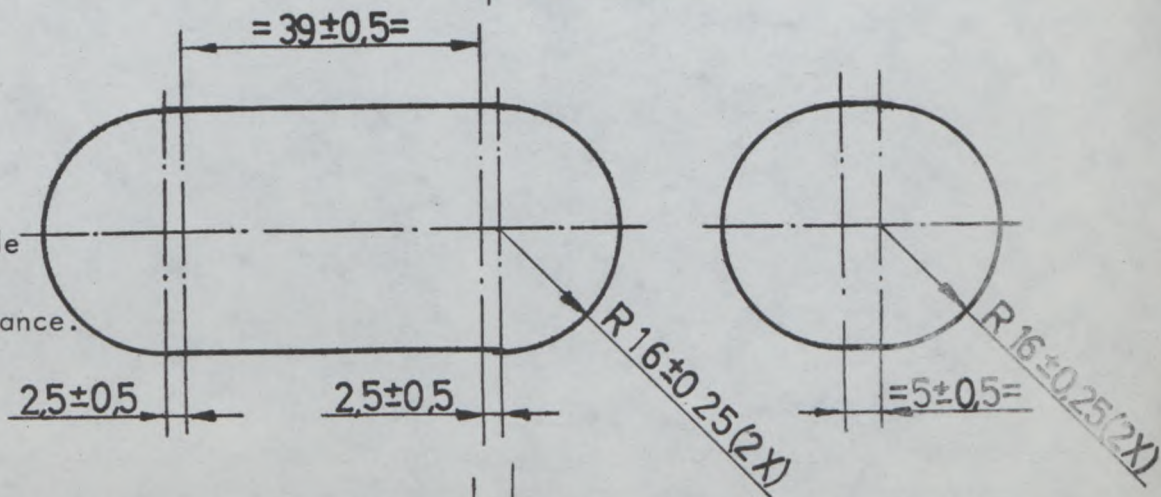
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



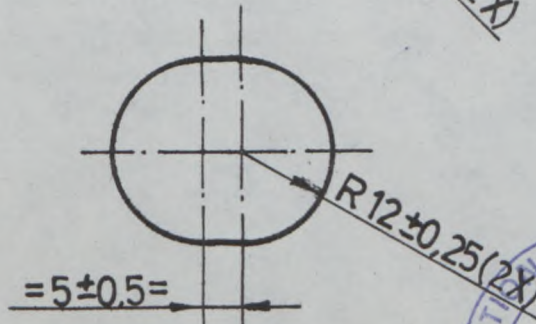
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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



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



Make Volvo Model 66 1300 GL F.I.A. Rec.No

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> 2255 ± 0.5 %	mm	88.78	inches
2. <u>Front track</u> 1300	} + 1 % - 0.3 %	mm	51.18 inches *
3. <u>Rear track</u> 1230			
4. Overall length of the car	390.5	cm	153.74 inches
5. Overall width of the car	154	cm	60.62 inches
6. Overall height of the car	138	cm	54.33 inches
7. <u>Capacity of fuel tank</u> (reserve included)		42	ltrs
	11.09	Gallon US	9.24
			Gallon Imp.
8. Seating capacity	4		
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:			
	835	kg	1841 lbs
			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.

10. Overall width of car measured above centre of axles.

Front:	1528 mm
Rear:	1528 mm

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 <sup>2</sup>	1 gallon Imp.	4.546 ltrs
1 cubic 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
- 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 Tempered glass
- 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, cloth
- 42. Weight of front seat (s), complete with supports and rails, out of the car :
 

12.5	kg	27.5	lbs
------	----	------	-----
- 43. Rear seats, type of seat and upholstery Bench, cloth
- 44. Front bumper, material (s) Steel/rubber Weight 7.7 kg 17 lbs
- 45. Rear bumper, material (s) Steel/rubber Weight 7.9 kg 17.4 lbs

WHEELS

- 50. Type Disc wheels
- 51. Weight (per wheel, without tyre) 5.4 kg 11.9 lbs
- 52. Method of attachment 3 bolts
- 53. Rim diameter 330.2 mm 13 inches
- 54. Rim width 114.3 mm 4.5 inches

STEERING

- 60. Type Rack and pinion
- 61. Servo-assistance : ~~yes~~ - no
- 62. Number of turns of steering wheel from lock to lock 3.3
- 63. In case of servo-assistance --



Make Volvo Model 66 1300 GL F.I.A. Rec.No

SUSPENSION

- 70. Front suspension (photogr. D), type Individual
- 71. Type of spring Torsion bars
- 72. Stabiliser (fitted) Yes
- 73. Number of shockabsorbers 2
- 74. Type Telescopic
- 78. Rear suspension (photogr. E), type de Dion
- 79. Type of spring Semi-elliptic leaf spring
- 80. Stabiliser (if fitted) Stabilizer bar
- 81. Number of shockabsorbers 2
- 82. Type Telescopic

BRAKES (photographs F and G)

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

	FRONT		REAR	
93. Number of cylinders per wheel	1		1	
94. Bore of wheel cylinder (s)	44 mm 1.732 in.		15.87 mm 0.625 in.	
Drum brakes				
95. Inside diameter	mm	in.	203 mm 7.992 in.	
96. Length of brake linings	mm	in.	160 mm 6.299 in.	
97. Width of brake linings	mm	in.	38 mm 1.496 in.	
98. Number of shoes per brake			2	
99. Total area per brake	mm <sup>2</sup>	sq.in.	12200 mm <sup>2</sup>	sq.in. 18.91
Disc brakes				
100. Outside diameter	248	mm 9.764 in.	mm	in.
101. Thickness of disc	11	mm 0.433 in.	mm	in.
102. Length of brake linings	55	mm 2.165 in.	mm	in.
103. Width of brake linings	37	mm 1.457 in.	mm	in.
104. Number of pads per brake	2			
105. Total area per brake	4000	mm <sup>2</sup> 6.2 sq.in.	mm <sup>2</sup>	sq.in.



ENGINE (photographs J and K)

- 130. Cycle 4
- 131. Number of cylinders 4
- 132. Cylinder arrangement in line
- 133. Bore 73 mm 2.874 in.
- 134. Stroke 77 mm 3.031 in.
- 135. Capacity per cylinder 322.25 cm<sup>3</sup> 19.665 cu.in.
- 136. Total cylinder-capacity 1289 cm<sup>3</sup> 78.66 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 4
- 141. Number of exhaust ports 4
- 142. Compression ratio 8.5
- 143. Volume of one combustion chamber 36 cm<sup>3</sup> 2.20 cu.in.
- 144. Piston, material Aluminium
- 145. Number of rings 3
- 146. Distance from gudgeon pin centre line to highest point of piston crown  
37.5 ± 0.05 mm 1.476 inches
- 147. Crankshaft : ~~mounted~~ / 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 ltrs 5.28 pts 3.17 quarts US
- 153. Oil cooler: ~~yes~~ / no
- 154. Method of engine cooling Water
- 155. Capacity of cooling system 4.8 ltrs 8.45 pints 5.07 quarts US
- 156. Cooling fan (if fitted), dia. 28.6 cm 11.26 inches
- 157. Number of blades of cooling fan 6

Bearings

- 158. Crankshaft main, type Alu. Dia. mm 46.00 <sup>+0</sup>/<sub>-0.02</sub> in. 1.810 - 1.811
- 159. Connecting rod big end, type Alu. Dia. mm max. 43.98 in. 1.722 - 1.731  
min. 43.78

Weights

- 160. Flywheel (clean) kg 9.32 ± 0.01 lbs 20.55
- 161. Flywheel with clutch (all turning parts) kg 13.6 lbs 29.9
- 162. Crankshaft kg 8.2 ± 0.2 lbs 18.08
- 163. Connecting rod kg 0.46 ± 0.03 lbs 1.01
- 164. Piston with rings and pin kg 0.36 ± 0.01 lbs 0.79





Make Volvo Model 66 1300 GL F.I.A. Rec.No

FOUR STROKE ENGINES

- 170. Number of camshafts 1
- 171. Location In cyl. block
- 172. Type of camshaft drive Chain
- 173. Type of valve operation Pushrod

INLET (see page 4)\*

- 180. Material (s) of inlet manifold Aluminium
- 181. Diameter of valves 33.5 mm 1.319 inches
- 182. Max. valve lift 7.6 mm 0.30 in.
- 183. Number of valve springs 1
- 184. Type of spring Helical
- 185. Number of valves per cylinder 1
- 186. Tappet clearance for checking timing (cold) 0.15 mm 0.0059 inches
- 187. Valves open at (with tolerance for tappet clearance indicated) 0° 30' A. T. D. C.
- 188. Valves close at (with tolerance for tappet clearance indicated) 36 A. B. D. C.
- 189. Air filter, type Paper / Plastic

EXHAUST (see page 4)

- 195. Material (s) of exhaust manifold Cast iron
- 196. Diameter of valves 30.3 mm 1.193 inches
- 197. Max. valve lift 7.6 mm 0.30 in.
- 198. Number of valve springs 1
- 199. Type of spring Helical
- 200. Number of valves per cylinder 1
- 201. Tappet clearance for checking timing (cold) 0.20 mm 0.00787 inches
- 202. Valves open at (with tolerance for tappet clearance indicated) 38° B. B. D. C.
- 203. Valves close at (with tolerance for tappet clearance indicated) 5° B. T. D. C.

CARBURETION (photograph N)

- 210. Number of carburettors fitted 1
- 211. Type Sidedraft
- 212. Make Solex
- 213. Model 32 EHSA
- 214. Number of mixture passages per carburettor 1
- 215. Flange hole diameter of exit port (s) of carburettor 32 mm 1.2598 in.
- 216. Minimum diameter of venturi / minimum diam. with piston at maximum height  
26 mm 1.02 inches

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



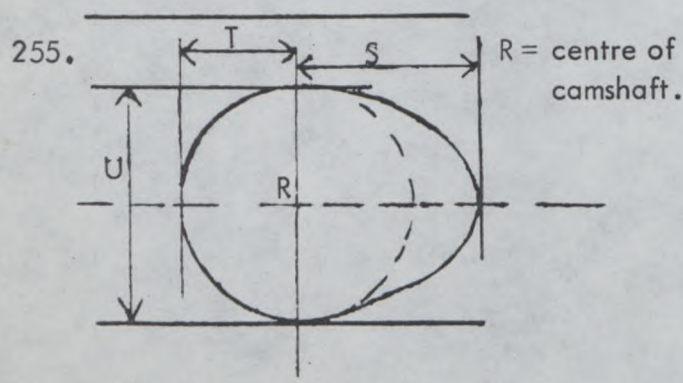
Make Volvo Model 66 1300 GL F.I.A. Rec.No

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, type : ~~dynamo~~/alternator - number fitted 1
- 237. Method of drive Belt
- 238. Voltage of generator 12 volts
- 239. Battery, number 1
- 240. Location Engine room
- 241. Voltage of battery 12 volts

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

- 250. Max. engine output 57 (type of horsepower:DIN) at 5200 rpm
- 251. Maximum rpm 6000 output at that figure
- 252. Maximum torque 9.6 kpm at 2800 rpm
- 253. Maximum speed of the car 145 km/hour 90.1 miles/hour



<u>Inlet cam</u>			
S =	18.65	mm	0.734 inches
T =	13.5	mm	0.531 inches
U =	27	mm	1.0629 inches
<u>Exhaust cam</u>			
S =	18.65	mm	0.734 inches
T =	13.5	mm	0.531 inches
U =	27	mm	1.0629 inches

Thickness of cylinder-head gasket compressed 1.20 mm 0.047 in.



Make Volvo Model 66 1300 GL F.I.A. Rec.No

DRIVE TRAIN  
CLUTCH

- 260. Type of clutch Centrifugal
- 261. No of plates 1
- 262. Dia. of clutch plates 184 cm 7.24 inches
- 263. Dia. of linings, inside 110 cm 4.331 in. outside 160 cm 6.299 in.
- 264. Method of operating clutch Automatic

GEAR BOX (photograph H)

- 270. Manual type, make -- Method of operation
- 271. No of gear-box ratios forward --
- 272. Synchronized forward ratios --
- 273. Location of gear-shift --
- 274. Automatic, make Volvo type Infinite variable
- 275. No of forward ratios --
- 276. Location of gear-shift Floor

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	No teeth	Ratio	No teeth	Ratio	No teeth	Ratio	No teeth
1			Infinite					
2			variable 14.22:1					
3			to 3.60:1					
4								
5								
6								
reverse								

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

FINAL DRIVE

- 290. Type of final drive Gear train
- 291. Type of differential ---
- 292. Type of limited slip differential (if fitted) --
- 293. Final drive ratio --
- Number of teeth --



Make Volvo Model 66 1300 GL 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 preceding information. This to be stated together with reference number.



*Form of Recognition (Normal development of original vehicle type)*

*Identifieringskort (Normal utveckling av vagnstypen)*

No.  
Nr

Make  
Märke Volvo

Type  
Typ

66 1300 DL

Photographic documentation  
Fotografier

Interior and exterior changes.

Kerb weight: 818 kg 1804 lbs



Stockholm den 17/12 1975

KUNGL AUTOMOBIL KLUBBEN

SVENSKA BILSPORTFÖRBUNDET

THE SWEDISH AUTOMOBILE-SPORT FEDERATION

*[Handwritten signature]*  
FEDERATION INTERNATIONALE  
L'AUTOMOBILE