

15 OCT. 1965

F.I.A. Recognition No. 5107
Group 1. Series. Production. Touring

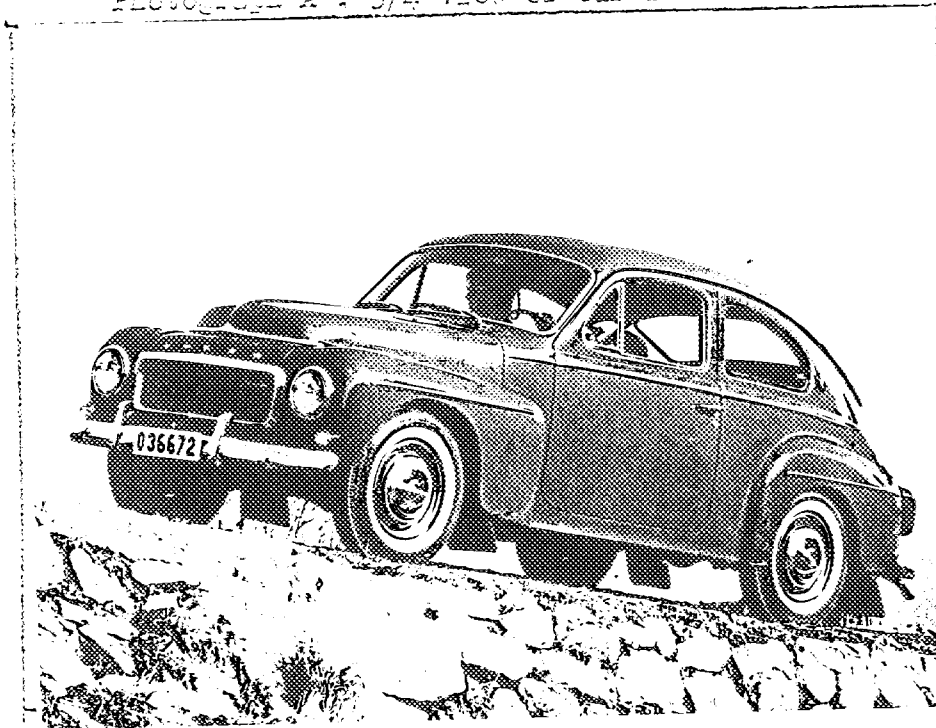
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer .AB.VOLVO Cylinder-capacity .1778.....cm³ .108.5...in³
Serial N° of chassis .330100..... Model 544-112xx.C
Serial N° of engine .496902-101..... Manufacturer .AB.VOLVO.....
Recognition is valid from 1st May 1966 .. List 14/4 ..

The manufacturing of the model described in this recognition form was started
on .AUGUST...19 64 and the minimum production of 5000 identical cars, in
accordance with the specifications of this form was reached on 1st May 1966.....

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.N° List	on 19 .. rec.N° List.....
on 19 .. rec.N° List	on 19 .. rec.N° List
on 19 .. rec.N° List	on 19 .. rec.N° List
on 19 .. rec.N° List	on 19 .. rec.N° List
on 19 .. rec.N° List	on 19 .. rec.N° List

Stamp and signature of the
National Sporting Authority

Stamp and signature of the F.I.A.

Robert J. ...

...

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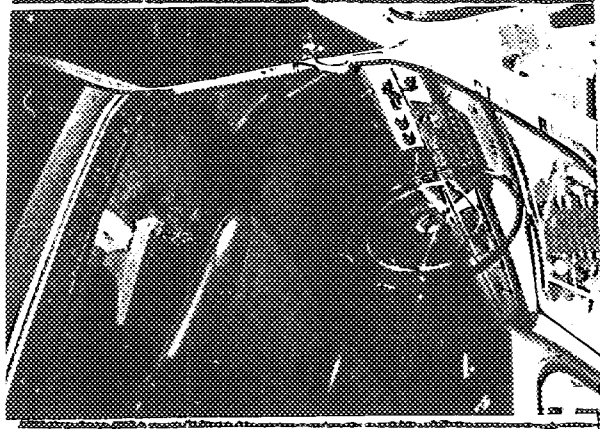
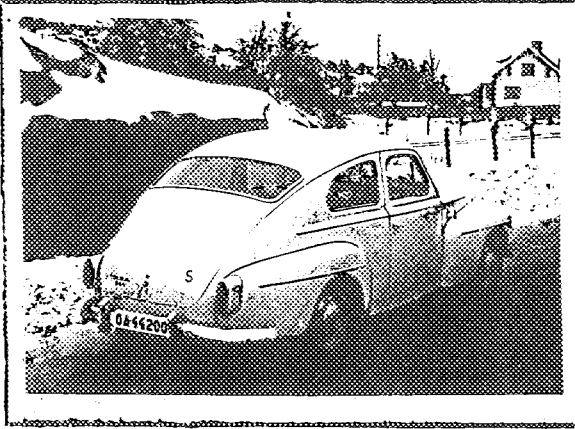
Make

Model

F.I.A. Rec. N°

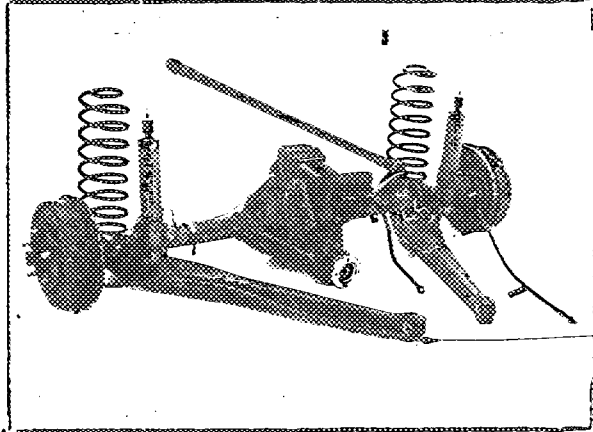
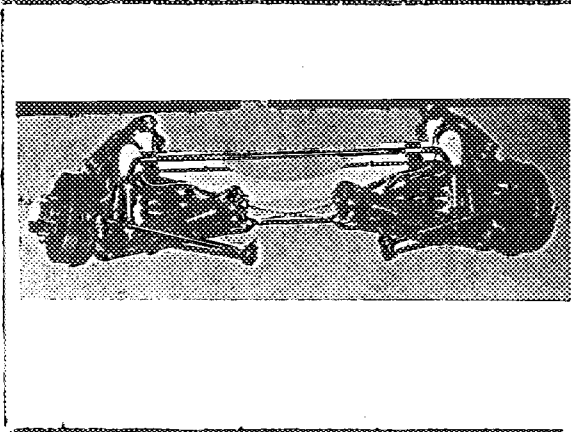
Photograph B

Photograph C



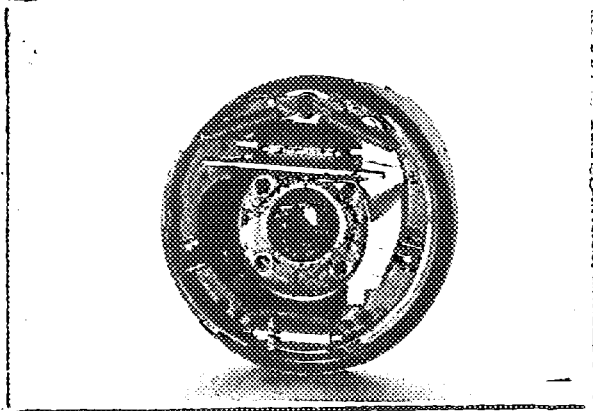
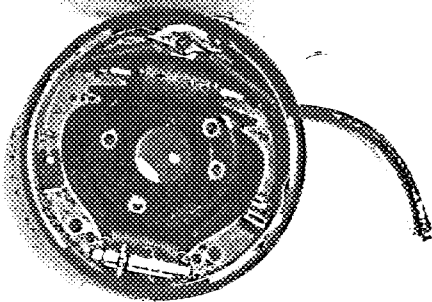
Photograph D

Photograph E



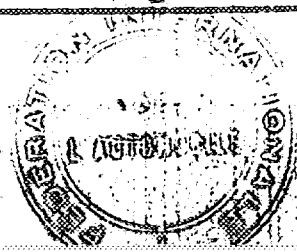
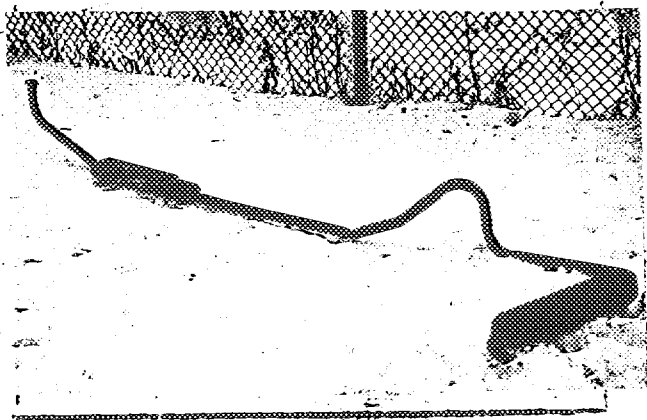
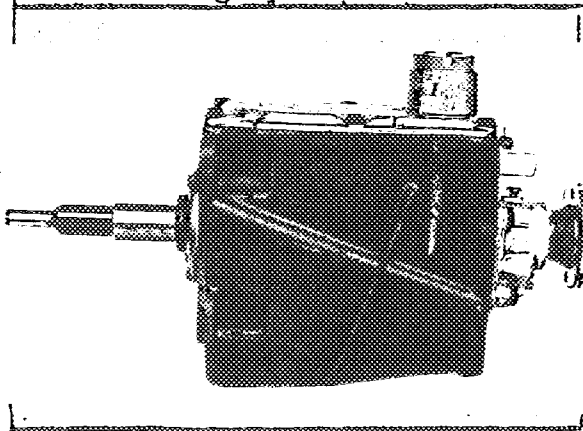
Photograph F

Photograph G



Photograph H

Photograph I

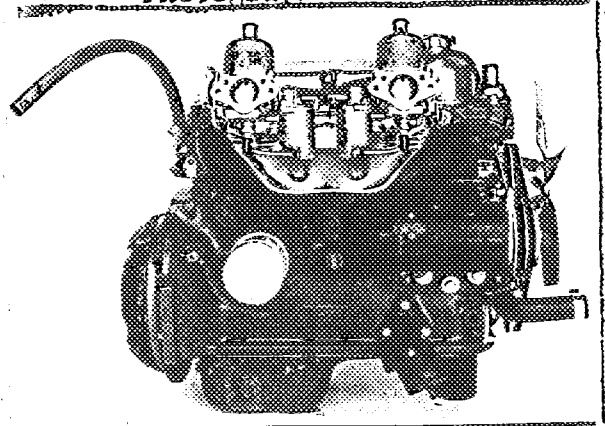


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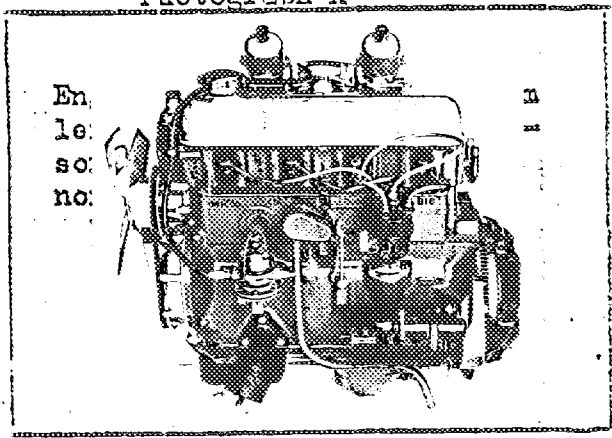
Model

F.I.A. Rec. N°

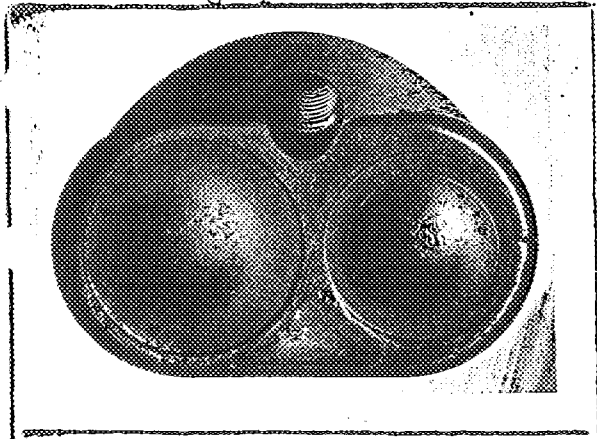
Photograph J



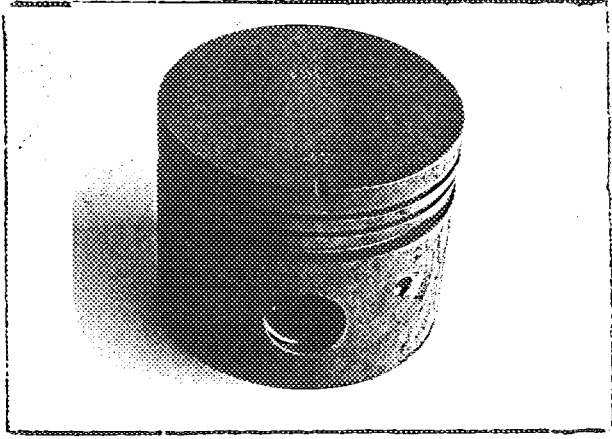
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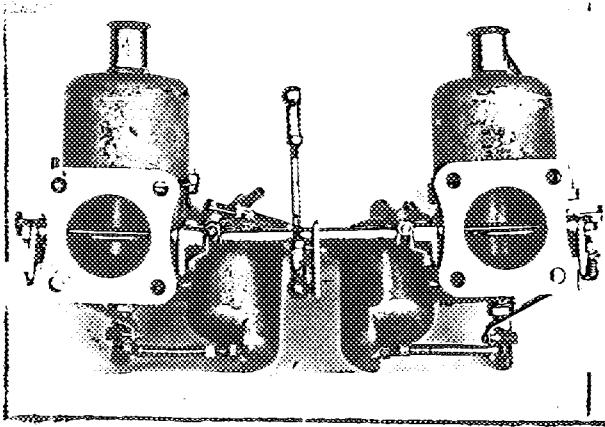
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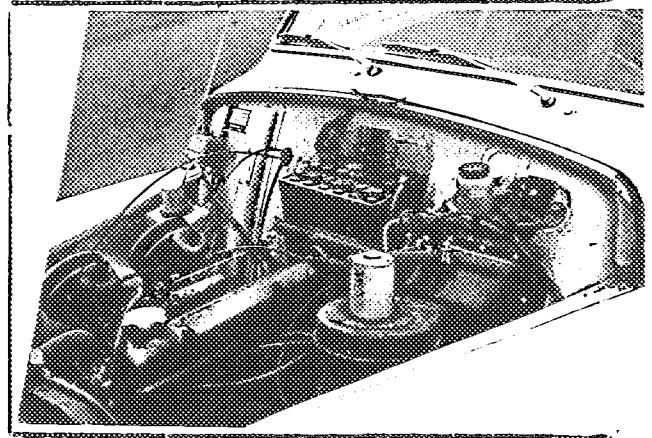
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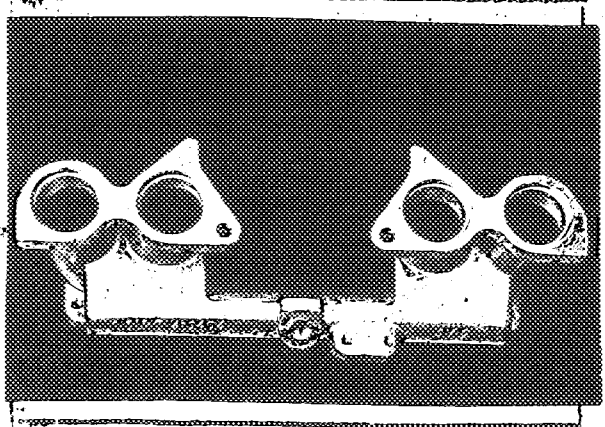
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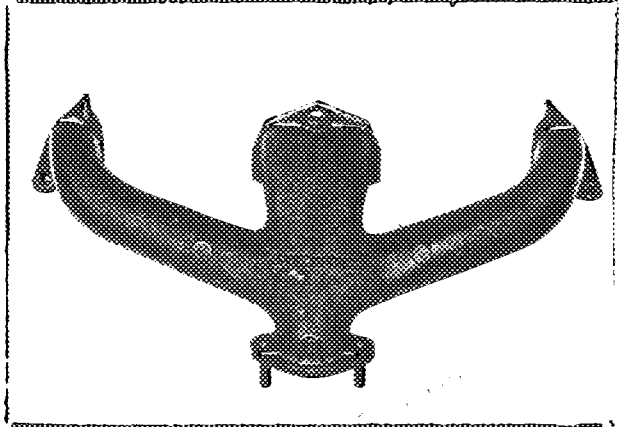
Photograph O



Photograph P



Photograph Q



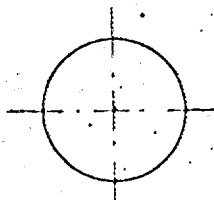
Stamp: FEDERAL BUREAU OF INVESTIGATION, U.S. DEPARTMENT OF JUSTICE, with handwritten number 8200 3.

Make

Model

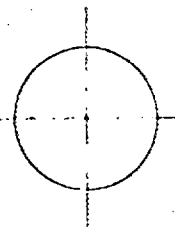
F.I.A. Rec. N°

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



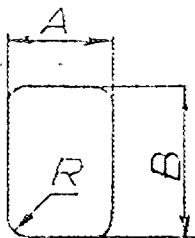
$\underline{\underline{\phi 36 \pm 0,31}}$

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



$\underline{\underline{\phi 36 \pm 0,31}}$

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

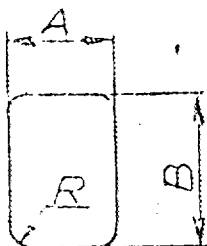


$\underline{\underline{A = 27 \pm 0,8}}$

$\underline{\underline{B = 40 \pm 0,8}}$

$\underline{\underline{R = 5 \pm 0,8}}$

Drawing of exit to exhaust port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



$\underline{\underline{A = 25 \pm 0,8}}$

$\underline{\underline{B = 38 \pm 0,8}}$

$\underline{\underline{R = 4 \pm 0,8}}$



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> | 2600 | mm | 102,4 | inches |
| 2. <u>Front track</u> | 1295 | mm | 51,0 | inches * |
| 3. <u>Rear track</u> | 1315 | mm | 51,8 | inches * |
| 4. Overall length of the car | | 445 | cm | inches |
| 5. Overall width of the car | | 159 | cm | inches |
| 6. Overall height of the car | | 156 | cm | inches. |
| 7. <u>Capacity of fuel tank</u> (reserve included) | | | | 35 litres |
| | 9,2 | Gallon US | | 7.7 Gallon Imp. |
| 8. Seating capacity | 4-5 | | | |
| 9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools : | | | | |
| | 970 | kg | 2119 | lbs |
| | | | | 19,0 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.

WE, HEREWITH, ALSO REQUEST RECOGNITION OF 4 1/2" WHEELS. THESE WIDER RIMS DO, IN NO RESPECT, AFFECT THE FRONT OR REAR TRACK OF THE VEHICLE.

CONVERSION TABLE

1 inch/pouce	-	2.54	cm	1 quart US	-	0.9464	lit.
1 foot/pied	-	30.4794	cm	1 pint (pt)	-	0.568	lit.
1 square inch/pouce carré	-	6.452	cm ²	1 gallon Imp.	-	4.546	lit.
1 cubic inch/pouce cube	-	16.387	cm ³	1 gallon US	-	3.785	lit.
1 pound/livre (lb)	-	453.593	gr.	1 hundred weight (cwt)	-	50.802	kg



Make VOLVO

Model 544-112xx C

F.I.A. Rec. N°

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 STEEL

23. Material(s) of coachwork STEEL

24. Number of doors 2 Material(s) METAL

25. Material(s) of bonnet METAL

26. Material(s) of boot lid METAL

27. Material(s) of rear-window PLATE GLASS

28. Material(s) of windscreen LAMINATED GLASS

29. Material(s) of front-door windows PLATE GLASS

30. Material(s) of rear-door windows -

31. Sliding system of door windows CRANK-OPERATED

32. Material(s) of rear-quarter light PLATE GLASS

ACCESSORIES AND UPHOLSTERY

36. Interior heating : yes - na

39. Air-conditioning : yes - no

40. Ventilation : yes - no

41. Front seats, type of upholstery seat and upholstery BUCKET, CLOTH AND VINYL

42. Weight of front seat(s), complete with supports and rails, out of the car :

10,3 kg lbs

43. Rear seats, type of upholstery seat and upholstery BENCH, CLOTH AND VINYL

44. Front bumper, material(s) CHROME-PLATED STEEL Weight 4,0 kg 1

45. Rear bumper, material(s) CHROME-PLATED STEEL Weight 4,3 kg 1

WHEELS

50. Type DISC WHEELS

51. Weight (per wheel, without tyre) 6,9 kg 10

52. Method of attachment WITH 5 NUTS

53. Rim diameter 381 mm 15 inches

54. Rim width 101 mm 4 inches

STEERING

60. Type CAM AND ROLLER

61. Servo-assistance : yes - no

62. Number of turns of steering wheel from lock to lock 3,25

63. In case of servo-assistance -



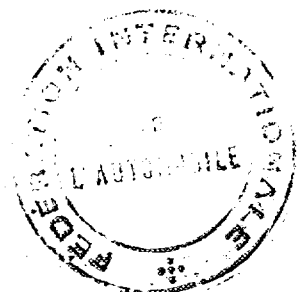
SUSPENSION

- 70. Front suspension (photogr. D), type INDIVIDUAL
- 71. Type of spring COIL
- 72. Stabiliser (if 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) NO
- 81. Number of shockabsorbers 2 82. Type TELESCOPIC

BRAKES (photographs F and G)

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

	FRONT			REAR		
93. Number of cylinders per wheel	1			1		
94. Bore of wheel cylinder(s)	25,4	mm	in.	20,64	mm	in.
Drum brakes						
95. Inside diameter	228,6	mm	in.	228,6	mm	in.
96. Length of brake linings	165	mm	in.	220	mm	in.
97. Width of brake linings	50,8	mm	in.	50,8	mm	in.
98. Number of shoes per brake	2			2		
99. Total area per brake	796	cm ²	sq.in.		mm ²	sq.in.
Disc brakes						
100. Outside diameter		mm	in.		mm	in.
101. Thickness of disc		mm	in.		mm	in.
102. Length of brake linings		mm	in.		mm	in.
103. Width of brake linings		mm	in.		mm	in.
104. Number of pads per brake						
105. Total area per brake		mm ²	sq.in.		mm ²	sq.in.



Make VOLVO

Model 544-112xx C

F.I.A. Rec. N°

ENGINE (photographs J and K)

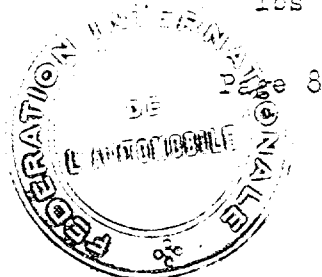
- 130. Cycle 4-STROKE
- 131. Number of cylinders 4
- 132. Cylinder arrangement IN LINE
- 133. Bore 84,14 mm 3,313 in. 134. Stroke 80 mm 3,15 in.
- 135. Capacity per cylinder 444,5 cm3 27,04 cu.in.
- 136. Total cylinder-capacity 1778 cm3 109 cu.in.
- 137. Material(s) of cylinder block CAST IRON
- 138. Material(s) of sleeves (if fitted) -
- 139. Cylinder-head, material(s) CAST-IRON Number fitted 1
- 140. Number of inlet ports 4
- 141. Number of exhaust ports 4
- 142. Compression ratio 8,5:1
- 143. Volume of one combustion chamber 51,3 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 mm inches
- 147. Crankshaft : ~~moulded~~ / stamped
- 148. Type of crankshaft : integral/...T...
- 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 38,5 litres pts quarts US
- 153. Oil cooler: ~~yes~~ / no
- 154. Method of engine cooling WATER
- 155. Capacity of cooling system 8,5 litres pints quarts US
- 156. Cooling fan (if fitted), dia. 38,5 cm inches
- 157. Number of blades of cooling fan 4

Bearings

- 158. Crankshaft main, type WHITE METAL Dia. 63,45 mm in.
- 159. Connecting, big end, type COPPER-LEAD-INDIUM Dia. 84,1 mm in.
rod

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 0,68 kg lbs
- 164. Piston with rings and pin 0,588 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. Diameter of valves 40 mm 1,58 inches
 182. Max. valve lift 8,9 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) 1,1 mm inches
 187. Valves open at (with tolerance for tappet clearance indicated) 10° ATDC
 188. Valves close at (with tolerance for tappet clearance indicated) 32° ABDC
 189. Air filter, type PAPER

EXHAUST (see page 4)

195. Material(s) of exhaust manifold CAST IRON
 196. Diameter of valves 35 mm 1,38 inches
 197. Max. valve lift 8,9 mm 0,35 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) 1,1 mm inches
 202. Valves open at (with tolerance for tappet clearance indicated) 32° ABDC
 203. Valves close at (with tolerance for tappet clearance indicated) 10° ATDC

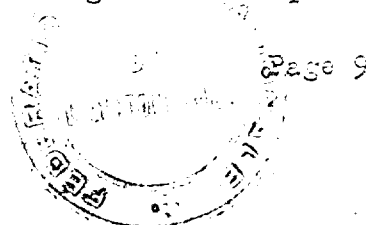
CARBURETION (photograph W)

210. Number of carburetors fitted 2 211. Type HORIZONTAL
 212. Make SU 213. Model HS-6
 214. Number of mixture passages per carburetor 1
 215. Flange hole diameter of exit port(s) of carburetor 44,5 mm in.
 216. Minimum diameter of venturi/minimum diam. with piston at maximum height
 mm 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 inches

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



Make Volvo

Model 544-112 xx C

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ENGINE ACCESSORIES

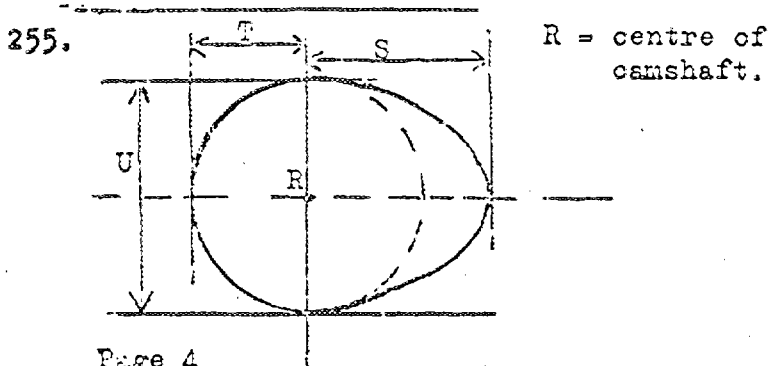
- 230. Fuel pump: mechanical
- 232. Type of ignition system coil
- 234. N° of ignition coils 1
- 236. Generator, type: dynamo - number fitted 1
- 238. Voltage of generator 12 volts
- 240. Location under bonnet centrally-located against fire wall

- 231. N° fitted 1
- 233. N° of distributors 1
- 235. N° of spark plugs per cylinder 1
- 237. Method of drive belt
- 239. Battery, number 1
- 241. Voltage of battery 12 volts

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

- 250. Max engine output 90
- 251. Maximum rpm 5000
- 252. Maximum torque 14.5 kgm at 3500 rpm
- 253. Maximum speed of the car

(type of horsepower: SAE) at 5000 rpm
 output at that figure 90
 14.5 kgm at 3500 rpm
 km/hour miles/hour



Inlet cam

- S = 21.3 mm inches
- T = 15.3 mm inches
- U = 30.638mm inches

Exhaust cam

- S = 21.3 mm inches
- T = 15.3 mm inches
- U = 30.638mm inches

Page 4

PAGE 10



Make VOLVO

Model 544-112xx C

F.I.A. Rec. N°

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, ~~183~~, 186, 187, 188, 189, ~~190~~, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, and photographs I, M and N. and page 4.

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

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

OPTIONAL EQUIPMENT:

REF: 64 WIDER RIMS 4 1/2" WEIGHT: 8,0 KG

REF: 292 POWR-LOK LIMITED SLIP DIFFERENTIAL

track?

} Recognition of these items is not valid in group 1

