F.I.A.	Recognition	No5.2	89
Group			

FEDERATION INTERNATIONALE DE L' AUTOMOBILE

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

Manufacturer A. B. VOLVO	Cylinder-capacity 1986. cm3 121,2 in3 Model 1425 Manufacturer A.B. VOLVO List 69 2
The manufacturing of the model described	in this recognition form was started on 5.81968. identical cars, in accordance with the specifica -

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. NoList on19 rec. NoList
	19 rec. No List on 19 rec. No List
on	19. rec. No List on 19. rec. No List
	19. rec. No List on 19. rec. No

Stamp and signature of the National Sporting Authority

SVENSKA BILSPORTFÖRBUNDET

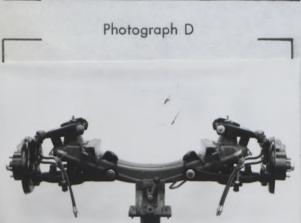
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

muma

Stamp and signature of the F.I

Photograph B

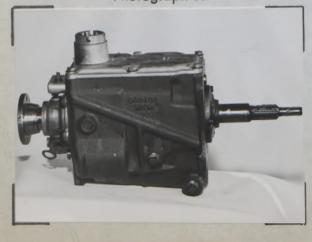




Photograph F



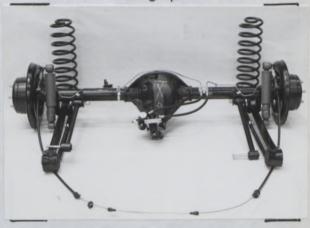
Photograph H



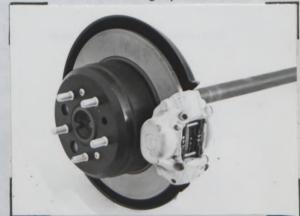
Photograph C



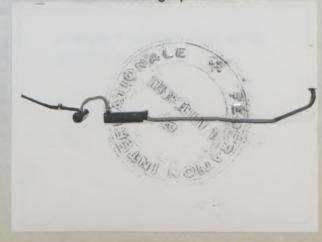
Photograph E



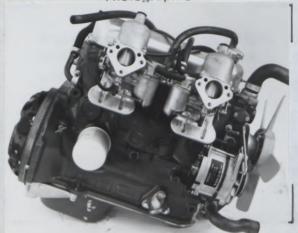
Photograph G



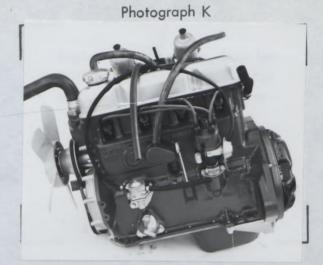
Photograph I



Photograph J

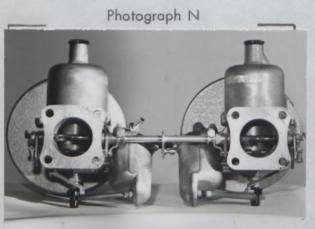


Photograph L



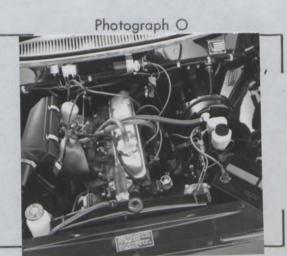
Photograph M



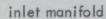


Photograph P





Photograph Q





Id



Make VOLVO

Model 142 5

F.I.A. Rec. No 5289

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



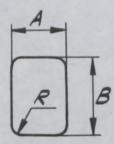
Ø 36 ±0,25

Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



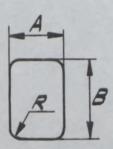
Ø36 ± 0,25

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



 $A = 27 \pm 0.7$ $B = 40 \pm 0.7$ $R = 5 \pm 0$

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



A = 25 ± 0,7 B = 38 ± 0,7 R = 4 ± 0 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. Wheelbase	2600	mm		102 1/2		
2. Front track	1350	mm		53 1/8	inches *	
3. Rear track	1350	mm		53 1/8	inches *	
4. Overall length of	the car		464	cm		inches
5. Overall width of the	ne car		174	cm		inches
6. Overall height of	the car		146	cm		inches
7. Capacity of fuel to	ink (reserve inc	f Gallon	US		13	58 Itrs Gallon Imp.

8. Seating capacity 5

9. Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:

1079 kg 2379 lbs 21,24 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
	foot/pied	-	30.4794 cm	1	pint (pt)	-	0.568 Hrs
	square inch/pouce carré	-	6.452 cm2	1	gallon Imp.	-	4.546 Itrs
	cubic inch/pouce cube			1	gallon US	-	3.785 Itrs
1	pound/livre (1b)		453.593 gr.	1	hundred weight (cwt)	-	50.802 kg

CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction: ** unitary construction
- 21. Unitary construction, material (s) 57EEL

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 -
- 39. Air-conditioning: no
- 40. Ventilation : yes -
- 41. Front seats, type of seat and upholstery SEPARATE SEATS, CLOTH AND VINYL
- 42. Weight of front seat (s), complete with supports and rails, out of the car:

18 kg

lbs

- 43. Rear seats, type of seat and upholstery BENCH, CLOTH AND VINYL
- 44. Front bumper, material (s) ANODIZED ALUMINIUM Weight 8 kg lbs
- 45. Rear bumper, material (s) ANODIZED ALUMINIUM Weight 7 kg lbs

WHEELS

- 50. Type DISC WHEELS
- 51. Weight (per wheel, without tyre) 7,9 kg lbs
- 52. Method of attachment WITH 5 NUTS
- 53. Rim diameter 381 mm 15 inches
- 54. Rim width 114 mm 41/2 inches

STEERING

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



SUSPENSION

70. Front suspension (photogr. D), type /NDIVIDUAL

71. Type of spring CO/L

72. Stabiliser (fitted) YES

73. Number of shockabsorbers TWO

74. Type TELESCOPIC

78. Rear suspension (photogr. E), type RIGID AXLE

79. Type of spring CO/L

80. Stabiliser (if fitted) -

81. Number of shockabsorbers TWO

82. Type TELESCOPIC

BRAKES (photographs F and G)

90. Method of operation HYDRAULIC, SPLIT CIRCUIT BRAKE SYSTEM

91. Servo-assistance (if fitted), type VACUUMSERVO

92. Number of hydraulic master cylinders TANDEM MASTER CYLINDER

			FRONT		REAR	
93.	Number of cylinders per wheel		4		2	
	Bore of wheel cylinder (s)	4 × 36	mm	in.	2×36 _{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		mm2	sq.in.	mm2	sq.in-
	Disc brakes			V		
100.	Outside diameter	272	mm	in.	95 mm	in.
101.	Thickness of disc	12,8	mm	in.	9,6 mm	in.
102.	Length of brake linings	75	mm		57 mm	in.
103.	Width of brake linings	50	mm	in.	12,5 mm	in.
104.	Number of pads per brake	_ 2			2	
105.	Total area per brake	7300	mm2	sq.in.	4650mm2	sq.in.



quarts US

Ibs

ENGINE (photographs J and K)

130.	Cycle 4-STROKE	
131.	Number of cylinders 4	
132.	Cylinder arrangement /N L/NE Bore 88,9 - 6 mm 3,5 in.	
133.	Bore 88,9 -0 mm 3,5 in. Stroke 80,0 ± 0,01 mm 3,15 in. Capacity per cylinder 496,6 cm3 Total cylinder-capacity 1986 cm3 Material (s) of cylinder block CAST /RON	
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	
	Material (s) of sleeves (if fitted)	
139.	Cylinder-head, material (s) CAST IRON	Number fitted ONE
140.	Number of inlet ports 4	
141.	Number of exhaust ports 4	
142.	Compression ratio 9,2:1	
143.	Volume of one combustion chamber 52,0 cm3	cu.in.
144.	Piston, material, LIGHT ALLOY	

145. Number of rings /146. Distance from gudgeon pin centre line to highest point of piston crown

	46 ± 0,1 mm inches	
147.	Crankshaft: moulded / stamped	
148.	Type of crankshaft: integral/	
149.	Number of crankshaft main bearings 5	14
150.	Material of bearing cap CAST IRON	
	System of lubrication: day oil in sump	
152.	Capacity, lubricant 3, 75 ltrs pts	
150	0!1!/	

153. Oil cooler: no
154. Method of engine cooling WATER

155. Capacity of cooling system 8,6 ltrs pints quarts US

156. Cooling fan (if fitted), dia. 36 cm 14 inches

157. Number of blades of cooling fan 5

Bearings

1.58. Crankshaft main, type Dia. 63,45 mm COPPER-LEAD-INDIUM :...
159. Connecting, rod big end, type Dia. 54,1 mm COPPER-LEAD-INDIUM :...

Weights

160. Flywheel (clean)

9,9 kg lbs

161. Flywheel with clutch (all turning parts)/5,9 kg

162. Crankshaft

163. Connecting rod

0,680 kg lbs

164. Piston with rings and pin 0,710 kg lbs



FOUR STROKE ENGINES

170. Number of camshafts 1

Make VOLVO

- CYLINDER BLOCK 171. Location
- 172. Type of camshaft drive GEARS
- 173. Type of valve operation PUSH ROD

INLET (see page 4)*

- 180. Material (s) of inlet manifold CAST IRON
- inches 181. Diameter of valves 182. Max. valve lift mm
- 183. Number of valve springs /
- 184. Type of spring COIL
- 185. Number of valves per cylinder 1
- 186. Tappet clearance for checking timing (cold) 1,44 mm 187. Valves open at (with tolerance for tappet clearance indicated) 0° 7. D. C.
- 188. Valves close at (with tolerance for tappet clearance indicated) 40° A. B. D. C.
- 189. Air filter, type PAPER

EXHAUST (see page 4)

- 195. Material (s) of exhaust manifold CAST IRON
- inches 196. Diameter of valves 197. Max. valve lift mm
- 198. Number of valve springs
- COIL 199. Type of spring
- 200. Number of valves per cylinder 1
- 201. Tappet clearance for checking timing (cold) 1,44 mm 202. Valves open at (with tolerance for tappet clearance indicated) 40° B. B. D. C.
- 203. Valves close at (with tolerance for tappet clearance indicated) O A.T. D.C.

CARBURETION (photograph N)

- 210. Number of carburettors fitted 2
- HORIZONTAL 211. Type _
- 212. Make
- H5-6 213. Model
- 214. Number of mixture passages per carburettor /
- 215. Flange hole diameter of exit port (s) of carburettor#5mm
- 216. Minimum diameter of venturi/minimum diam. with piston at maximum height

inches mm

INJECTION (if fitted)

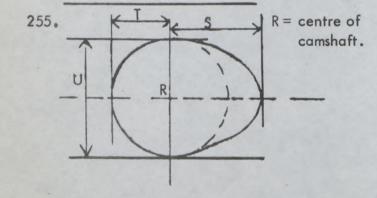
- 220. Make of pump
- 221. Number of plungers
- 222. Model or type of pump
- 223. Total number of injectors
- 224. Location of injectors
- 225. Minimum diameter of inlet pipe



mm

ENGINE ACCESSORIES

- - ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)
- 250. Max. engine output 1/8 (type of horsepower: SAE) at 5.800 rpm 251. Maximum rpm 5.800 output at that figure 1/8 SAE
- 252. Maximum torque 17,0 KGM = SAE at 3.500 rpm
- 253. Maximum speed of the car km/hour miles/hour



S = 21,3	mm	9839	inches
T = 14,6	mm	0,575	inches
U= 29,418	mm	1, 158	inches
Exhaust cam			
s = 21,3	mm	0,839	inches
T = 14,6	mm	0,575	inches
U= 29,418	mm	1,158	inches



DRIVE TRAIN

260. Type of clutch DRY DISC

261. No of plates

262. Dia. of clutch plates 21,6 cm inches

263. Dia. of linings, inside 14,0 cm in. outside 21,6 cm in. 264. Method of operating clutch MECHANICAL

GEAR BOX (photograph H)

270. Manual type, make VOLVO M40 OR M41 Method of operation MANUAL

271. No of gear-box ratios forward 4

272. Synchronized forward ratios

273. Location of gear-shift CENTRE FLOOR LEVER

274. Automatic, make

275. No of forward ratios

276. Location of gear-shift

277.	Ratio Manual No teeth		Auto	matic No teeth	Alternative manual/automatic Ratio No teeth Ratio No teeth			
			Kallo	INO TEETIN	Kallo	INO TEETI	Kario	INO TEETI
1	3,13:1	33:15						
2	1,99:1	28:20						
3	1,36:1	22:23						
4	1:1							
5								
6								
reverse	3,25:1	32:19						

278. Overdrive, type M 41 WITH ELECTRICALLY - OPERATED OVERORIVE

279. Forward gears on which overdrive can be selected FOURTH GEAR

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 WITH GEARBOX M40: 4,1, WITH GEARBOX M41: 4,30
Number of teeth
41: 10
43:10

Alternative final drive ratio

