F.I.A. Recognition No ...5625.....

Group .....1.....

FEDERATION INTERNATIONALE DE L' AUTOMOBILE

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

Manufacturer .AB Volvo..... Cylinder-capacity .1986.....cm3.121,1....in3

Serial No of chassis ..0001..... Model .....242 L.....

engine 0001..... Manufacturer .....AB Volvo.....

Recognition is valid from...1..3.76... Manufacturer .....AB Volvo.....

List .....

The manufacturing of the model described in this recognition form was started on .10/8.1974 and the minimum production of .5000..... identical cars, in accordance with the specifications of this form was reached on .1/11.....1974.

Photograph A, 3/4 view of car from front

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

Variants

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 .....

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.....

Stamp and signature of the
National Sporting Authority

SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

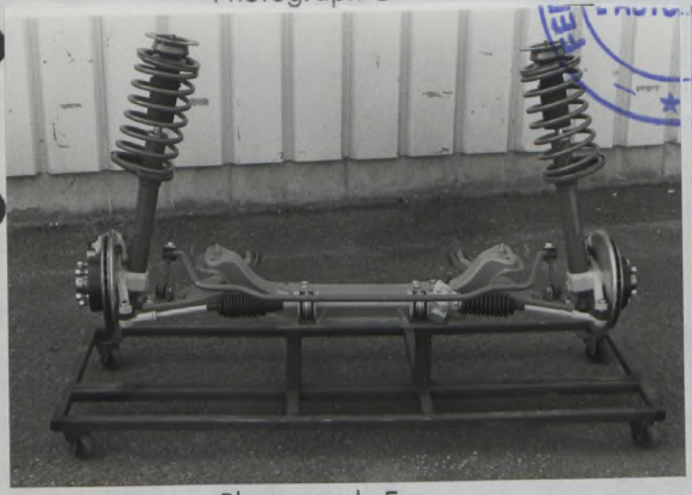
Stamp and signature of the F.I.A.

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

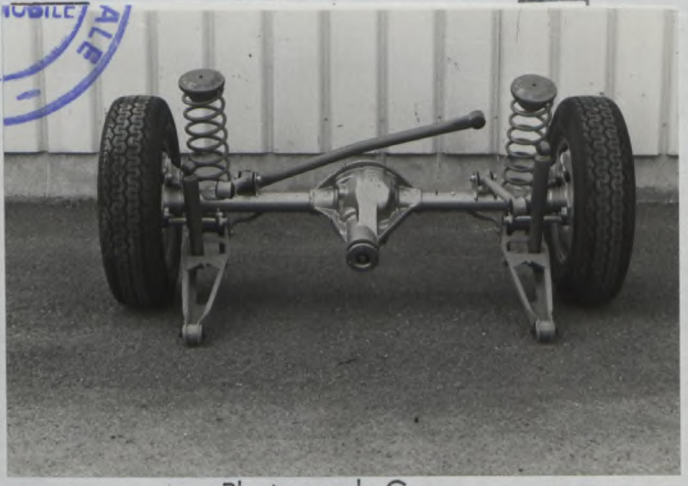
Photograph B

Photograph C

Photograph D

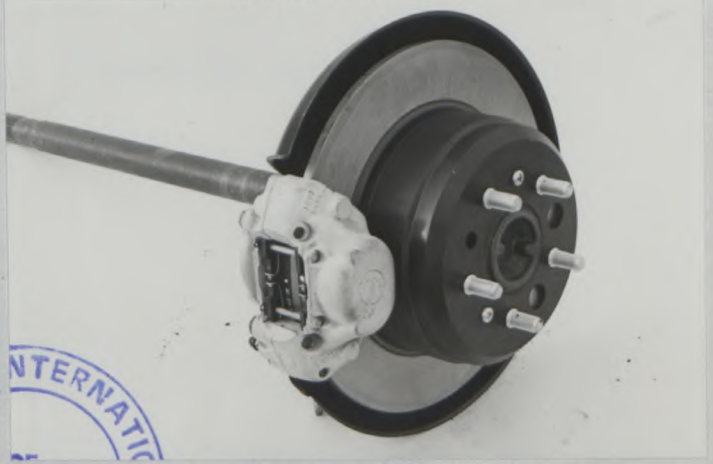


Photograph E

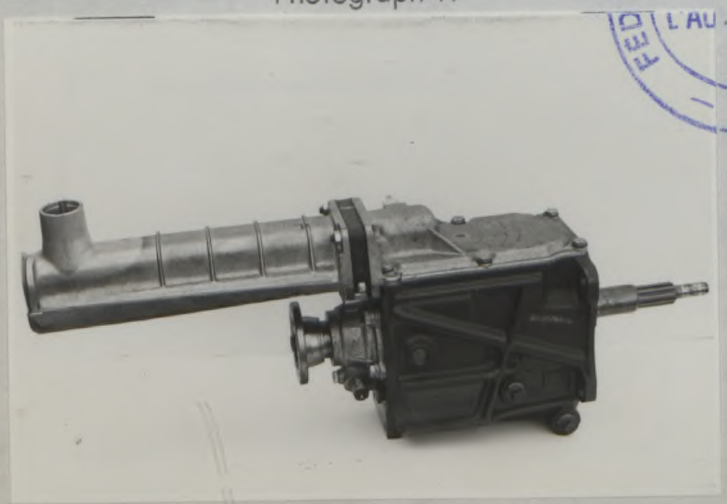


Photograph F

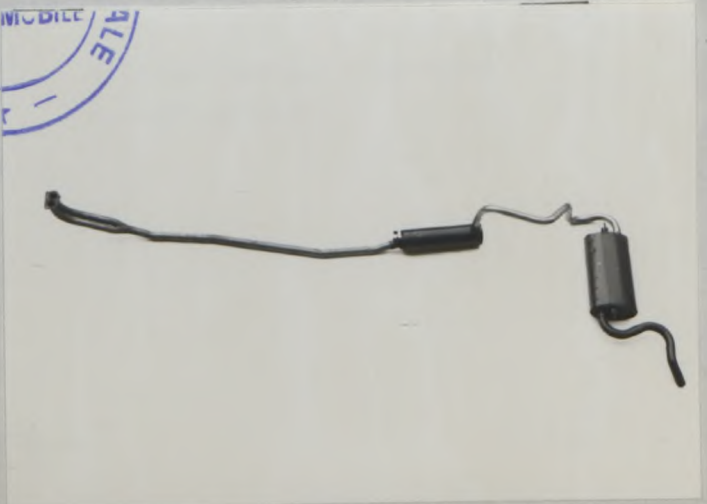
Photoaraph G



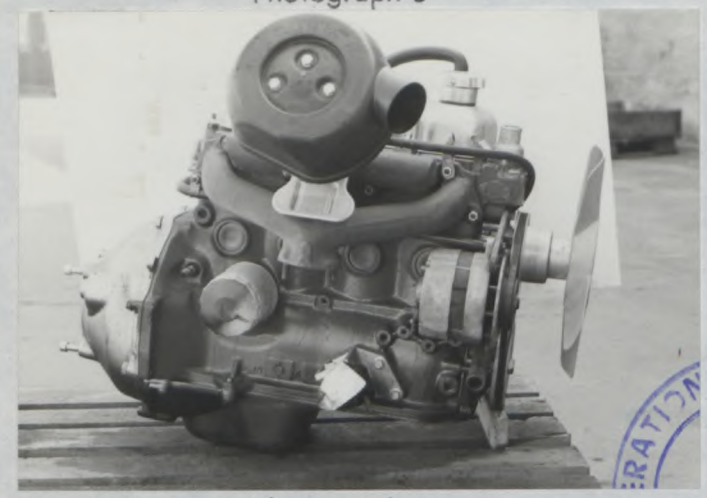
Photograph H



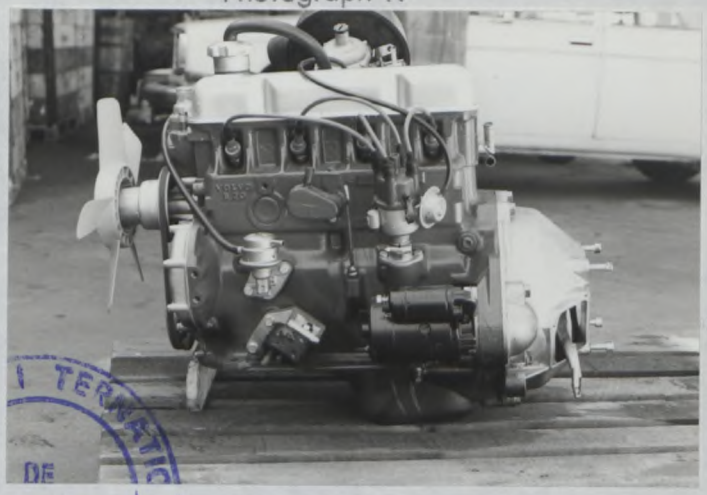
Photograph I



Photograph J



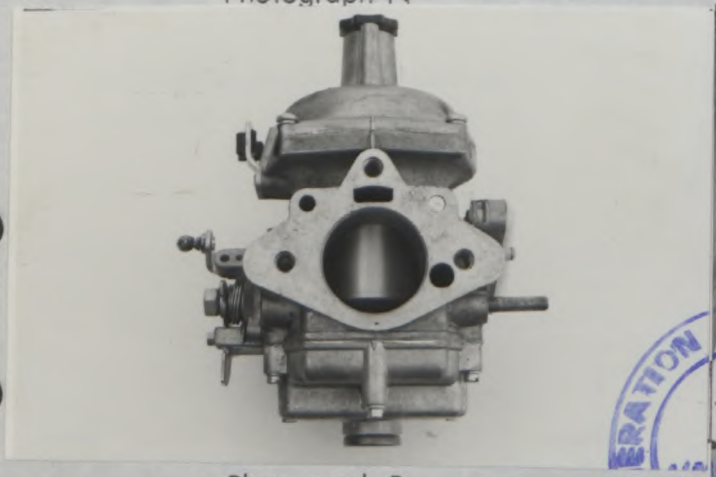
Photograph K



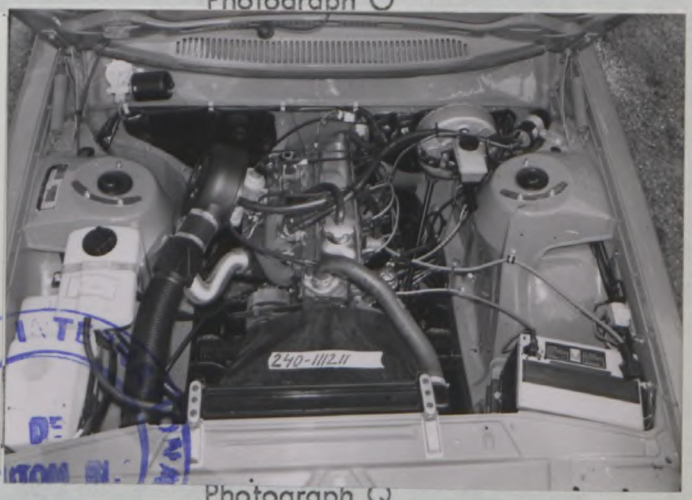
Photograph L

Photograph M

Photograph N

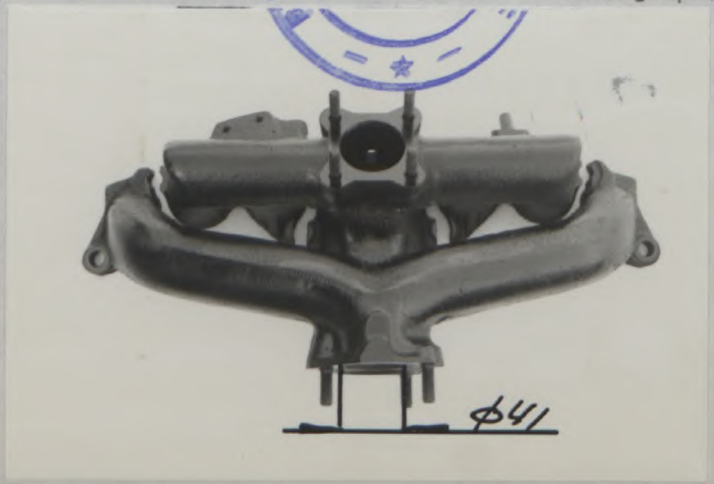


Photograph O



Photograph P

inlet manifold

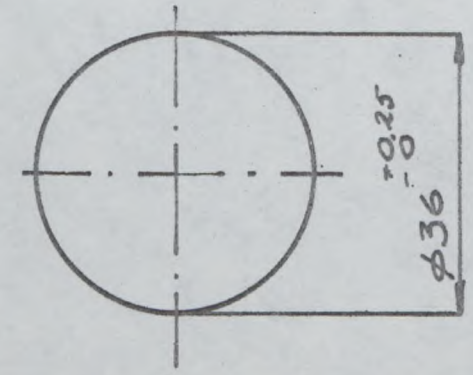


Photograph Q

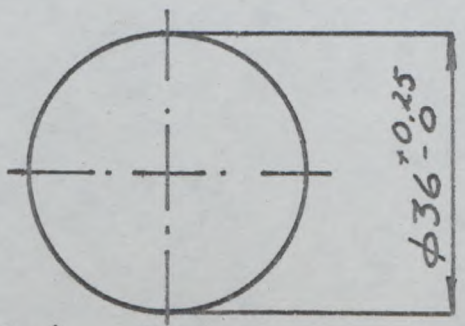
5625

Make Volvo Model 242 L F.I.A. Rec.No

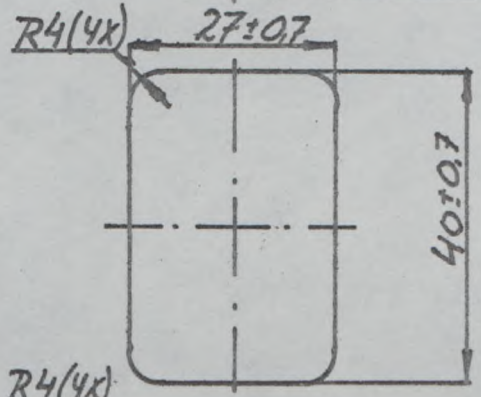
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



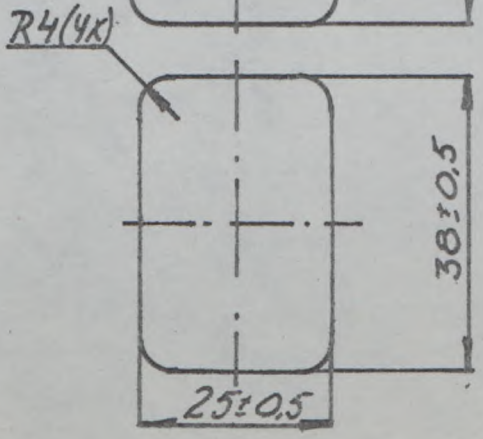
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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 242 L F.I.A. Rec.No 5625

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 2640 mm 104 inches
2. Front track 1420 mm 56 inches *
3. Rear track 1350 mm 53 inches *
4. Overall length of the car 4898 cm 193 inches
5. Overall width of the car 1710 cm 67 inches
6. Overall height of the car 1440 cm 56, 5 inches
7. Capacity of fuel tank (reserve included) 60 ltrs
   Gallon US 13, 2 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:

   1180 kg 2601 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.

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 cm2	1 gallon Imp.	- 4.546 ltrs
1 cubic inch/pouce cube	- 16.387 cm3	1 gallon US	- 3.785 ltrs
1 pound/livre (l b)	- 453.593 gr.	1 hundred weight (cwt)	- 50.802 kg

Make Volvo Model 242 L F.I.A. Rec.No 5625

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

13.6 kg 29.9 lbs

43. Rear seats, type of seat and upholstery bench cloth
44. Front bumper, material (s) anodized aluminum Weight 10 kg 22 lbs
45. Rear bumper, material (s) anodized aluminum Weight 10 kg 22 lbs

WHEELS

50. Type disc wheels
51. Weight (per wheel, without tyre) 8,0 kg 17.65 lbs
52. Method of attachment 5 nuts
53. Rim diameter 354,8 mm 14 inches
54. Rim width 127 mm 5 inches

STEERING

60. Type rack and pinion
61. Servo-assistance : ~~yes~~ - no
62. Number of turns of steering wheel from lock to lock 4,3
63. In case of servo-assistance

Make Volvo Model 242 L F.I.A. Rec.No 5625

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)	yes
81.	Number of shockabsorbers	2
82.	Type	telescopic

BRAKES (photographs F and G)

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

		FRONT				REAR			
93.	Number of cylinders per wheel	4				2			
94.	Bore of wheel cylinder (s)	36	mm	1.42	in.	38	mm	1.5	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								
100.	Outside diameter	263	mm	10.35	in.	281	mm	11.07	in.
101.	Thickness of disc	14.3	mm	.563	in.	9.6	mm	.378	in.
102.	Length of brake linings	96	mm	3.78	in.	62	mm	2.44	in.
103.	Width of brake linings	50	mm	1.97	in.	42.5	mm	1.67	in.
104.	Number of pads per brake	2				2			
105.	Total area per brake	8300	mm2	12.87	sq.in	5000	mm2	7.75	sq.in.

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Make Volvo Model 242 L F.I.A. Rec.No 5625

ENGINE (photographs J and K)

130. Cycle 4
131. Number of cylinders 4
132. Cylinder arrangement in line
133. Bore 88.9 mm 3.5 in.
134. Stroke 80 mm 3.15 in.
135. Capacity per cylinder 497 cm3 30.3 cu.in.
136. Total cylinder-capacity 1986 cm3 121.1 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 $8.7\ ^{+0.2}_{-0.3}$
143. Volume of one combustion chamber $54.2\ ^{+0}_{-2}$ cm3 $3.3\ ^{+0}_{-0.1}$ cu.in.
144. Piston, material aluminum
145. Number of rings 3
146. Distance from gudgeon pin centre line to highest point of piston crown

46 ±0.1 mm 1.81 ±0.004 inches

147. Crankshaft : ~~moulded~~ / 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 3.75 ltrs 6.6 pts 3.96 quarts US
153. Oil cooler: ~~yes~~/ no
154. Method of engine cooling water cooling
155. Capacity of cooling system 9.3 ltrs 16.4 pints 9.83 quarts US
156. Cooling fan (if fitted), dia. 36 cm 14.2 inches
157. Number of blades of cooling fan 5

Bearings

158. Crankshaft main, type Dia. 64 mm 2.52 in.
159. Connecting, rod big end, type Dia. 54 mm 2.13 in.

Weights

160. Flywheel (clean) 8.9 ±0.1 kg 19.6 ±0.2 lbs
161. Flywheel with clutch (all turning parts) 15.2 ±0.2 kg 33.3 ±0.4 lbs
162. Crankshaft 16.8 ±0.2 kg 37.0 ±0.4 lbs
163. Connecting rod 0.84 ±0.04 kg 1.85 ±0.09 lbs
164. Piston with rings and pin kg 1.54 ±0.02 lbs
0.70 ±0.01

FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

Make Volvo Model 242 L F.I.A. Rec.No 5625

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 cast iron
181. Diameter of valves 44 mm 1.73 inches
182. Max. valve lift 8.9 mm 0.35 in.
183. Number of valve springs 1
184. Type of spring helical valve spring
185. Number of valves per cylinder 1
186. Tappet clearance for checking timing (cold) 0.51 mm 0.020 inches
187. Valves open at (with tolerance for tappet clearance indicated) 13 BTDC
188. Valves close at (with tolerance for tappet clearance indicated) 55 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 helical valve spring
200. Number of valves per cylinder 1
201. Tappet clearance for checking timing (cold) 0.51 mm 0.020 inches
202. Valves open at (with tolerance for tappet clearance indicated) 55 BBDC
203. Valves close at (with tolerance for tappet clearance indicated) 13 ATDC

CARBURETION (photograph N)

210. Number of carburettors fitted 1
211. Type horizontal
212. Make SU / Zenith-Stromberg
213. Model HIF6 / 175 CD-2 SE
214. Number of mixture passages per carburettor 1
215. Flange hole diameter of exit port (s) of carburettor mm 44.4/44.4 in. 1.75/1.75
216. Minimum diameter of venturi / minimum diam. with piston at maximum height 34.6/32.5 mm 1.36/1.28 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

Make Volvo Model 242 L F.I.A. Rec.No 5625

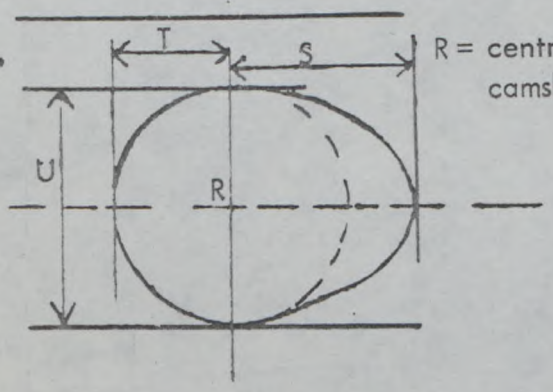
ENGINE ACCESSORIES

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 14.2 volts
239. Battery, number 1
240. Location engine compartment
241. Voltage of battery 12 volts

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

250. Max. engine output 82 (type of horsepower: DIN) at 4.700 rpm
251. Maximum rpm 6.500 output at that figure --
252. Maximum torque 16 kpm at 2.300 rpm
253. Maximum speed of the car km/hour miles/hour

255.



R = centre of camshaft.

Inlet cam

S = 21.0	mm	0.827	inches
T = 15.0	mm	0.591	inches
U = 30.0	mm	1.181	inches

Exhaust cam

S = 21.0	mm	0.827	inches
T = 15.0	mm	0.591	inches
U = 30.0	mm	1.181	inches

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Make Volvo Model 242 L F.I.A. Rec.No 5625

DRIVE TRAIN
CLUTCH

260. Type of clutch: dry, diaphragm spring
261. No of plates: 1
262. Dia. of clutch plates: 21.5 cm 8.5 inches
263. Dia. of linings, inside: 14.4 cm 5.7 in. outside 21.5 cm 8.5 in.
264. Method of operating clutch: cable

GEAR BOX (photograph H)

270. Manual type, make: M 40, Volvo Method of operation manual
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	3.41	$\frac{27}{19} \times \frac{36}{15}$	2.39	$\frac{67}{28}$		
2	1.99	$\frac{27}{19} \times \frac{28}{20}$	1.45	$\frac{1 + \frac{32}{28}}{1 + \frac{32}{67}}$		
3	1.36	$\frac{27}{19} \times \frac{23}{24}$	1.00			
4	1.00					
5						
6						
reverse	3.25	$\frac{27}{19} \times \frac{19}{14} \times \frac{32}{19}$	2.09	$\frac{67}{32}$		

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: rigid axle
292. Type of limited slip differential (if fitted)
293. Final drive ratio: 4.1:1
Number of teeth: 41:10

Make Volvo Model 242 L F.I.A. Rec.No 5625

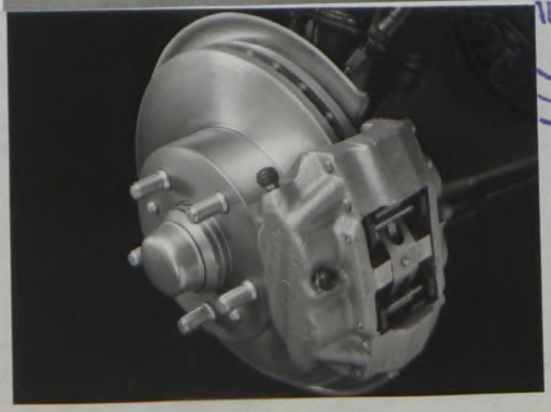
Volume of one combustion space in the cylinder head: $65\ ^{+0}_{-2}$ $4.0\ ^{+0}_{-0.1}$

Thickness of head gasket when compressed: 1.2 mm.

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

51.	Weight	8.4 kg		
54.	Rim width	139.7 mm	5.5 inches	
			Front	
101.	Thickness of disc	24	mm	.945 in.
102.	Length of brake linings	79.7	"	3.14 "
103.	Width of brake linings	50	"	1.97 "
105.	Total area per brake	7250	"	11.25 sq.in.
242.	Type of limited slip differential			DANA Powr-Lok

278. Overdrive, type J. Laycock
279. Forward gears on which overdrive can be selected, 4th
280. Overdrive ratio 0.798
293. Final drive ratio 4.88:1
Number of teeth 39:8
274. Automatic gearbox Borg Warner BW 35



F. I. A. Recognition No.
FIA Identifieringskort Nr 5625

01/01 E

KUNGL AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

Form of Recognition (normal development of original vehicle type)
Identifieringskort (normal utveckling av vagnstypen)

valid from / gällande fr. o. m. 1/4 1979 — upon documentation delivered by the manufacturer. / på grundval av från tillverkaren lämnade uppgifter.

Make / Märke Volvo

Previously recognized type, to which this extension refers / Tidigare klassad typ, till vilken denna utökning hänföres 242 L

Date when the first vehicles in this stage of development were manufactured / Tillverkningsdatum för de första fordonen av denna vidareutveckling 20/8 1975

Serial No. of the type inaugurating this extension / Nummerserie för denna utvecklade typ 53865

The / Modellen 242 L recognized in Category / klassad i kategori 1

by the F.I.A. on the / av FIA den _____ List / Lista _____ as a normal / som normal

development of the original vehicle type.
utveckling av vagnstypen

Stamp and signature of the F.I.A.
FIA:s signatur och stämpel

DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

A development of the original car with following change:

94 Bore of wheel cylinders, front: 38 mm

FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE ★ C. S. I.

SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

F. I. A. Recognition No.
F I A Identifieringskort Nr 5625

02/01 V

KUNGL AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

Form of Recognition (Variation)
Identifieringskort (Variant)

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valid from / gällande fr. o. m. 1/4 1979 — upon documentation delivered by the manufacturer. / på grundval av från tillverkaren lämnade uppgifter.

Make / Märke Volvo

Previously recognized type, to which this extension refers / Tidigare klassad typ, till vilken detta tillägg hänföres 242 L

Date when the first vehicles in this stage of development were manufactured / Tillverkningsdatum för de första fordonen av denna vidareutveckling 20/8 1975

Serial No. of the type inaugurating this extension / Nummerserie för denna utvecklade typ 53865

Model name of this variation / Modellbeteckning för denna variant 242 L

The / Modellen 242 L recognized in Category / klassad i kategori 1

by the F.I.A. on the / av F.I.A. den _____ List / Lista _____ as a normal / som normal

development of the original vehicle type. / utveckling av vagnstypen

Stamp and signature of the F.I.A. / FIA:s signatur och stämpel

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DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

Following variants are introduced, individually or together:

Photo I

A. Alernative exhaust system

Engine output is unchanged.

FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE ★ C. S. I.

SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

KUNGL AUTOMOBIL KLUBBEN

02/01 V

Form of Recognition (Variation)
Identifieringskort (Variant)

No. Nr 5625 — Make Märke Volvo — Type Typ 242 L

Photographic documentation
Fotografier

B Alternative manual gearbox.

270 Make: Volvo M45

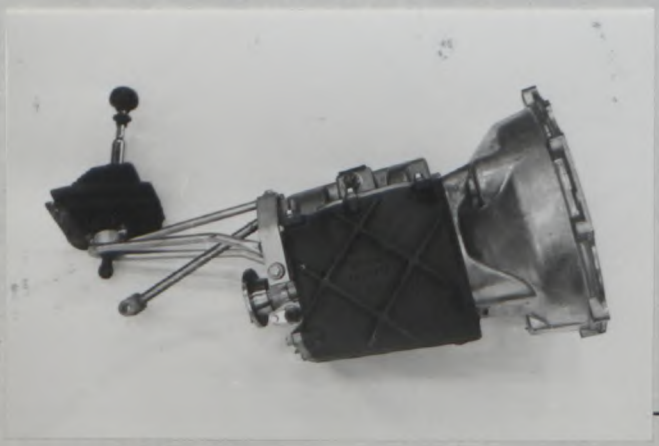
271 No of forward ratios: 4

277

	Alt 1		Alt 2	
	Ratio	No teeth	Ratio	No teeth
1	3,71	$\frac{34}{13} \times \frac{34}{24}$	2,50	$\frac{35}{15} \times \frac{30}{28}$
2	2,16	$\frac{32}{21} \times \frac{34}{24}$	1,63	$\frac{32}{21} \times \frac{30}{28}$
3	1,37	$\frac{29}{30} \times \frac{34}{24}$	1,27	$\frac{32}{27} \times \frac{30}{28}$
4	1,00		1,00	
Rev	3,68	$\frac{39}{15} \times \frac{34}{24}$	2,80	$\frac{24}{13} \times \frac{34}{24} \times \frac{30}{28}$

278 Overdrive type: Laycock "J"
279 Forward gears on which OD can be selected: 4th } Optional
280 Overdrive ratio: 0,798

Photo H



FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE ★ C. S. I.

Stockholm den _____ 19____

KUNGL AUTOMOBIL KLUBBEN

SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

F. I. A. Recognition No. 5625
F I A Identifieringskort Nr
03/02 V

KUNGL AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

Form of Recognition (Variation)
Identifieringskort (Variant)

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valid from / gällande fr. o. m. 1/4 1980 — upon documentation delivered by the manufacturer. / på grundval av från tillverkaren lämnade uppgifter.

Make / Märke Volvo

Previously recognized type, to which this extension refers / Tidigare klassad typ, till vilken detta tillägg hänföres 242 L

Date when the first vehicles in this stage of development were manufactured / Tillverkningsdatum för de första fordonen av denna vidareutveckling

Serial No. of the type inaugurating this extension / Nummerserie för denna utvecklade typ

Model name of this variation / Modellbeteckning för denna variant

The / Modellen 242 L, recognized in Category / klassad i kategori 2

by the F.I.A. on the / av F.I.A. den 1/4 1980 List / Lista _____ as a normal / som normal

development of the original vehicle type. / utveckling av vagnstypen

Stamp and signature of the F.I.A. / FIA:s signatur och stämpel

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DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

CONCERNS GROUP 2

Reinforced support arm, rear suspension

Reinforced wishbones, front suspension

"valable en Groupe 2 uniquement"
"valid for Group 2 only"

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KUNGL AUTOMOBIL KLUBBEN

Form of Recognition (Variation)
Identifieringskort (Variant)

03/02 V

No. Nr 5625 | Make Märke Volvo | Type Typ 242 L

Photographic documentation
Fotografier

Reinforcement in front suspension: Stays between Mc Pherson struts and firewall.

"valable en Groupe 2 uniquement"
"valid for Group 2 only"

FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE ★ C. S. I.

Stockholm den _____ 19____

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SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

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