

VOLVO



*Competition
Service*

Prod HOMOLOGATION FORM	Section	1
	No	1
Date July, 1970		

HOMOLOGATION FORM

The homologation form, or ID-card, is a document which states the fixed specifications for an automobile and also indicates that this automobile has been manufactured in the quantity demanded by the international rules.

An application for homologation is submitted by the manufacturer to the national instance, in Sweden SVENSKA BILSPORTFÖRBUNDET (SBF) which forwards the application to the international organization for automobile competitions FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE.

The intention of the homologation form is that the pilot of a car, with the help of the form concerned in competitions, can prove that his car is of the version specified in the rules and that it has not been tuned beyond what is approved.

In competitions it is essential for every entry to be able to produce a valid homologation form. Owners of Volvo cars can obtain a copy free of charge from Volvo Competition Service.

The homologation form is available for amongst others the following cars:

VOLVO 122S (2-door)	B18	from	chassie	no	84600	Form	No	1408
123GT	B18	"	"	"	216950	"	"	5152
122S (2-door)	B20	"	"	"	312500	"	"	5313
VOLVO 142S	B18	"	"	"	1	"	"	5208
142S	B20	"	"	"	52900	"	"	5314

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

1408



KUNGL AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

Fédération Internationale de l'Automobile

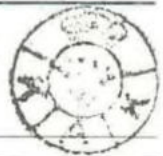
FORM OF RECOGNITION IN ACCORDANCE WITH APPENDIX J TO THE INTERNATIONAL SPORTING CODE
IDENTIFIERINGSKORT I ÖVERENSSTÄMMELSE MED BILAGA J TILL INTERNATIONELLA TÄVLINGSREGLEMENTET

Manufacturer Tillverkare AB VOLVO GÖTEBORG

Model Modell 122, 2-doors/2-dörr Year of manufacture Tillverkningsår 1965

SERIAL NO. OF
NUMMERSERIE PÅ

Chassis Chassi P 132xx 84600 -1, -2, -3, ... Engine Motor B 18 D



Type of coachwork Two door saloon
Karosserityp 2-dörrars täckt

Recognition is valid from Klassningen gäller fr. o. m. 1st December 1965 In category Touring
I kategori



August Scherzer
Signature and Stamp of F.I.A.
F. I. A.'s signatur och stämpel

KUNGL AUTOMOBIL KLUBBEN

GENERAL DESCRIPTION OF CAR
ALLMÄN VAGNSBESKRIVNING

INTEGRAL STEEL BODY

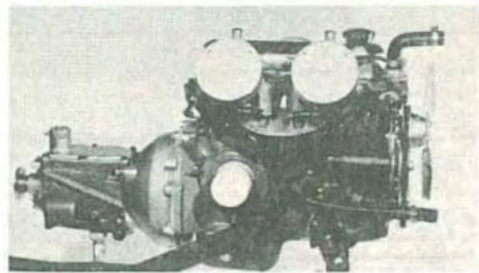
SJÄLVBÄRANDE STÅLKAROSS



Car from rear left
Fordonet snett bakifrån vänster



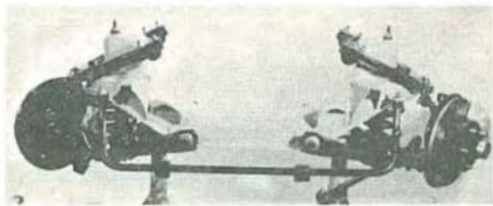
Engine from left
Motor från vänster



Interior through open driver's door
Interiör genom öppen förardörr



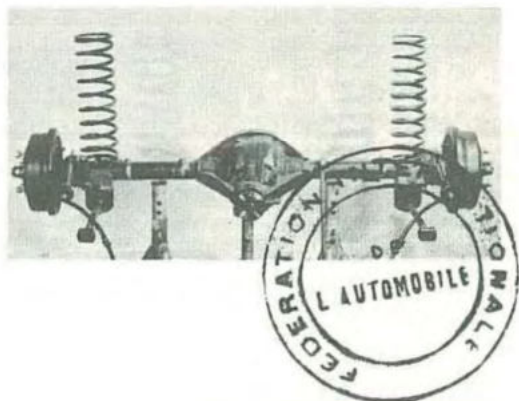
Front axle
Framaxel



Engine from right
Motor från höger



Rear axle
Bakaxel



KUNGL AUTOMOBIL KLUBBEN

**ENGINE
MOTOR**

No. of cylinders Antal cylindrar	4	Cylinder lay-out: Cylinderarrangemang:	In line I rad	V_{ac}/V_a	In V IV-form	-	Opposed Motliggande	-
Means of cooling Kylmedium	Water/Vatten		Cycle		4-stroke			
Capacity Cylindervolym	1778	cm ³	Arbetsätt		4-takt			
Bore Cylinderdiameter	84,14	mm	Firing order Tändföljd		1-3-4-2			
			Stroke Slaglängd		80			mm

Material of cylinder block Material i cylinderblock	C. J. Gjutjärn	Material of sleeves, if fitted Material i av. cylinderfoder	-					
Distance from crankshaft centre line to top face of block at centre line of cylinders Avstånd från vevaxelns centrumlinje till blockets överkant i cylindrarnas centrumlinje					231,5	+ 0,1		mm
Material of cylinder head Material i cylinderlock	C. J. Gjutjärn	Volume of one combustion chamber Volym av ett förbränningsrum			38,5	+ 1,5		cm ³
Compression ratio Kompressionsförhållande	11,1	Height at centre of combustion chamber Höjd i mitten av förbränningsrum			10,1	+ 0,1		mm
No. of piston rings Antal kolvringar	3	Distance from gudgeon pin centre to highest point of piston crown Avstånd från kolvtappens centrumlinje till kolvens högsta punkt			46	+ 0,1		mm



BEARINGS LAGER

Crankshaft main bearings No. Vevaxellager	Antal	4 + 1	Type Copper-lead-indium/White metal Typ Blybrons/Vitmetall	Diameter Diameter	63,45	mm
Connecting rod big end Vevstakslager	4	Type Copper-lead-indium Typ Blybrons	Diameter Diameter	54,1	mm	

WEIGHTS VIKTER

Flywheel / Svänghjul	8	kg	Crankshaft Vevaxel	16,5	kg	Connecting rod Vevstake	0,7	+ 0,03	kg
Piston with rings / Kolv med ringar	0,482	kg	Gudgeon pin Kolvtapp	0,113	kg				

**VALVES
VENTILER**

No. of valves per cylinder Antal ventiler per cylinder	2	Method of valve operation Ventilmekanism	Push rod Tryckstång
No. of camshafts Antal kamaxlar	1	Location of camshafts Kamaxelplacering	Cylinder block Cylinderblock
Type of camshaft drive Kamaxeldrivning	Gears Kugghjul		



KUNGL AUTOMOBIL KLUBBEN

	INLET / INLOPP		EXHAUST / UTLOPP	
Diameter of valves Ventildiameter	42 mm		35 mm	
Diameter of port at valve seat Portdiameter vid ventilsäte	41 mm		34 mm	
Tappet clearance for checking timing Ventilspel vid kontroll av ventiltider	0,4 mm		0,4 mm	
Valves open Ventiler öppnar	31	B.T.D.C. F.O.D.	73	B.B.D.C. F.U.D.
Valves close Ventiler stänger	73	A.B.D.C. E.U.D.	31	A.T.D.C. E.O.D.
Maximum valve lift <i>At valve play</i> Max. lyfthöjd <i>Ventilspel</i> } 0	10,8 mm		10,8 mm	
Degrees of crankshaft rotation from zero to: Grader vaxelvarv från noll till:				
Maximum lift <i>At valve play</i> Max. lyfthöjd <i>Ventilspel</i> } 0	230		230	
3/4 maximum lift 3/4 av max. lyfthöjd	174		174	

VALVE SPRINGS
VENTILFJÄDRAR

	Coil		Coil	
Type	Spiral		Spiral	
No. per valve Antal per ventil	1		1	
Length, unloaded Längd, obelastad	46 mm		46 mm	
when fitted Inspänd	39,8+0,4 mm		39,8+0,4 mm	
Diameter internal Diameter inre	18,5 mm		18,5 mm	
external yttre	27,2 mm		27,2 mm	
Number of turns Antal varv	7		7	

CARBURETTOR
FORGASARE

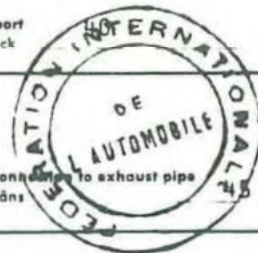
Type	Horizontal	No. fitted Antal	2
Typ	Horisontal		
Make Fabrikat	S.U.	Model Typ	HS-6 Flange hole diameter Flänsdiameter 44,5 mm

INLET MANIFOLD
INLOPPSRÖR

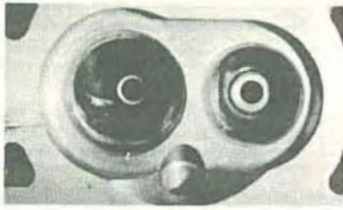
Diameter of flange hole at carburettor Inre diameter vid förgasarfäns	47 mm	Diameter of flange hole at port Inre diameter vid cylinderlock	mm
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EXHAUST MANIFOLD
AVGASRÖR

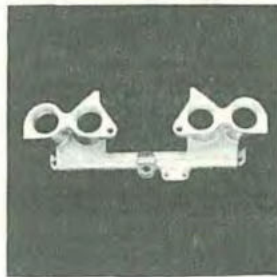
Diameter of flange hole at port Inre diameter vid cylinderlock	1 = 75 x 41	Diameter of flange hole at connection to exhaust pipe Inre diameter vid grenrörsfäns	2 = 28 x 41 mm
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KUNGL AUTOMOBIL KLUBBEN



Combustion chamber
Förbränningsrum



Inlet manifold
Inlopps rör



Piston from above
Kolv snett uppifrån



Exhaust manifold
Utloppsgrenör

ADDITIONAL INFORMATION FOR CARS FITTED WITH TWO-CYCLE ENGINES
YTTERLIGARE UPPGIFTER FOR BILAR MED TVÅTAKTSMOTORER

System of cylinder scavenging _____ Type of lubrication _____

Cylinderspolning _____ Smörjsystem _____

SIZE OF INLET PORT: MÅTT, INLOPPSKANAL:	Length measured around cylinder wall Längd, mätt runt cylindervägg _____ mm	Height Höjd _____ mm	Area _____ mm ²
SIZE OF EXHAUST PORT: MÅTT, UTLOPPSKANAL:	Length measured around cylinder wall Längd, mätt runt cylindervägg _____ mm	Height Höjd _____ mm	Area _____ mm ²
SIZE OF TRANSFER PORT: MÅTT, ÖVERSTRÖMNINGSKANAL:	Length measured around cylinder wall Längd, mätt runt cylindervägg _____ mm	Height Höjd _____ mm	Area _____ mm ²
SIZE OF PISTON PORT: MÅTT, KOLVPORT:	Length measured around piston Längd, mätt runt kolv _____ mm	Height Höjd _____ mm	Area _____ mm ²

Method of pre-compression
Spolsystem _____



Drawing of cylinder ports
Skiss över cylinderportar

ENGINE ACCESSORIES
MOTORTILLBEHÖR

Type of ignition system Coil

Tändsystem, typ Batteritändning

Make of dynamo Bosch Maximum output 360 w No. of ignition coils 1
Fabrikat generator _____ Max effekt _____ Antal tändspolar _____

Make of starter motor Bosch Battery: No. fitted _____ Voltage of system 12 v
Fabrikat startmotor _____ Batteri: Antal 1 Spänning _____

SUPERCHARGER, if fitted
KOMPRESSOR, om sådan finnes

Make _____ Model or type No. _____
Fabrikat _____ Modell eller typ _____

Type of drive _____ Ratio of drive _____
Drivsätt _____ Utväxling _____



KUNGL. AUTOMOBIL KLUBBEN

FUEL INJECTION, if fitted
BRÄNSLEINSPRUTNING, om sådan finns

Make of pump
Insprutningspump, fabrikat _____

Model or type No.
Modell eller typ _____

Make of injectors
Munstycken, fabrikat _____

Model or type No.
Modell eller typ _____

Location of injectors _____

Placering av munstycken _____



**TRANSMISSION
KRAFTÖVERFÖRING**

Type Dry disc

Make of clutch
Fabrikat koppling Borg o Beck

Typ Torrslamell

Diameter of clutch plate
Diameter lamell 8,5"

No. of plates
Antal skivor 1

No. of clutch springs
Antal kopplingsfjädrar _____

Type Mechanical

Make of gearbox
Fabrikat växellåda Volvo M 40

Typ Mekanisk

No. of gearbox ratios
Antal växlar 4

Method of operating gearshift Manual

Location of gearshift Centre floor lever

Växlingsmekanism Manuell

Växelspaksplacering Golv

Overdrive? Planetary gear

If fitted, method of operation Electrical

Överväxel Planettyg

Om sådan finnes, manövrering El. hydraulisk

	GEARBOX RATIOS / UTVÄXLINGAR		ALTERNATIVE RATIOS / ALTERNATIVA UTVÄXLINGAR					
	Ratio Utväxl.	No. of teeth Antal kuggar	Ratio Utväxl.	No. of teeth Antal kuggar	Ratio Utväxl.	No. of teeth Antal kuggar	Ratio Utväxl.	No. of teeth Antal kuggar
1	3,13	33:15	2,62	33:15				
2	1,99	28:20	1,67	28:20				
3	1,36	22:23	1,24	23:22				
4	1							
Primary gears Primärväxel =		27:19		25:21				
Rev. Bock	3,25							

Type of final drive Hypoid

Type of differential Rigid axle

Slutväxel, typ Hypoid

Differentialtyp Stel axel

Alternatives
Alternativ Anti-spinn

Final drive ratio
Utväxling slutväxel 4,1, 4,56, 4,88

No. of teeth
Antal kuggar 41:10, 41:9, 39:8

Overdrive ratio, if fitted
Utväxling ev. överväxel 0,756

WHEELS

HJUL

Type
Typ Disc wheels/skiwhjul

Rim size
Färgstorlek 4j x 15, 4,5j x 15, 5,5j x 15

Tyre size: Front
Däckdimension: Fram 165 x 15

Rear
Bak 165 x 15

Alt.
Alt. 8.00 x 15

BRAKES

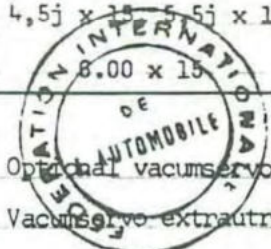
BROMSAR

Method of operation Hydraulic

Type of servo, if fitted Optional vacuum servo

Arbetsätt Hydraulisk

Typ av ev. servo Vacuum servo extrautrustning



KUNGL AUTOMOBIL KLUBBEN

	FRONT / FRAM		REAR / BAK	
No. of wheel cylinders Antal hjulcylindrar	3		1	
Bore of wheel cylinders Diameter hjulcylindrar	2 st 1 1/2", 1 st 2 1/8" mm		1" mm	
Inside diameter of brake drums Inre diameter bromstrummer	-		230 mm	
No. of shoes per brake Antal backar per broms	-		2	
Outside diameter of brake discs Yttre diameter bromskivor	270 mm		-	
No. of pads per brake Antal klotsar per broms	2		-	
DIMENSIONS OF BRAKE LININGS PER SHOE OR PAD BELÄGGDIMENSION PER BACK ELLER KLOTS				
Length Längd	95 mm	220 x 2	mm	
Width Bredd	75 mm	-	mm	
Total area per brake Beläggyta per broms	95 cm ²	220	cm ²	

SUSPENSION

	FRONT / FRAM		REAR / BAK	
FJÄDRING				
Type Typ	Individual		Rigid axle/stel axel	
Type of spring Fjädertyp	Coil/spiral		Coil/spiral	
Is stabilizer fitted? Finns krängningsdämpare?	Yes/ja		-	
Type of shock absorber Stötdämpartyp (funktionsprincip)	Teleskopisk		Teleskopisk	
No. of shock absorbers Antal stötdämpare	2		2	
Remarks				
Anm.				



STEERING

STYRINRÄTTNING			
Type of steering gear Antal rattvarv mellan fulla framhjulslutslag	Cam and roller 3,25	Styrinrättning, typ Vänddiameter	Skruv och rulle 9,6

CAPACITIES AND DIMENSIONS

MÅTT OCH VIKTER

Fuel tank Bränsletank	45,90 liter	Sump Oljeträg	3,25 liter	Radiator Kylsystem	8,5 liter	Gearbox Växellåda	0,75 liter
Remarks Anm.	Gearbox with overdrive 1,6 liter						
Overall length Total längd	444 cm	Overall width Total bredd	163 cm	Overall height, unladen Total höjd, obelastad	149 cm		
Distance from floor to top of windscreen: Highest point Höjd över golvet till vindrutans överkant: Högsta punkt	103 cm			Lowest point Lägsta punkt	100 cm		
Width of windscreen Vindrutebredd	max. 125 cm	min. 114 cm	Interior width Inre bredd		cm		
Wheelbase Hjulbas	260 cm	Track width, front Spårvidd, fram	131,5 cm	rear bak	131,5 cm		
Overall weight with water, oil and spare wheel, but without fuel Vagnvikt med vatten, olja och reservhjul, men utan bränsle						1013	kg



KUNGL AUTOMOBIL KLUBBEN

**OPTIONAL EQUIPMENT AND FURTHER OBSERVATIONS
EXTRAUTRUSTNING OCH YTTERLIGARE UPPLYSNINGAR**



Protection plates = front and rear
Skyddsplåtar = fram och bak

Coil)	front	52 50 60
Spiral)	fram	
		rear	52 50 61
		bak	

The vehicle described in this Form of Recognition "New Model", recognized
Det i detta identifieringskort för ny modell beskrivna fordonet, klassat

by the F. I. A. on the _____ under No. _____ has been subject to
av F. I. A. den _____ under nr _____ har blivit föremål för

Additional Recognition (Variant) on the _____ under No. _____
Tillägg till klassning (variant) den _____ under nr _____

on the _____ under No. _____
den _____ under nr _____

on the _____ under No. _____
den _____ under nr _____

on the _____ under No. _____
den _____ under nr _____

on the _____ under No. _____
den _____ under nr _____

Extension of Recognition (Normal development of original vehicle type)
Utökning av klassning (Normal utveckling av vagntypen)

on the _____ under No. _____
den _____ under nr _____

on the _____ under No. _____
den _____ under nr _____

on the _____ under No. _____
den _____ under nr _____

on the _____ under No. _____
den _____ under nr _____

on the _____ under No. _____
den _____ under nr _____

Stockholm _____ 19 61

KUNGL AUTOMOBIL KLUBBEN

[Handwritten signature]

F.I.A. Recognition No *5152*
 Group *1 - Tourisme de Serie*

FEDERATION INTERNATIONALE DE L' AUTOMOBILE

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

Manufacturer *A. B. Volvo* Cylinder-capacity ... *1778* cm3 ... *109* in3
 Model *123 GT*
 Serial No of chassis *216 950** Manufacturer ... *A. B. Volvo*
 engine *1* Manufacturer ... *A. B. Volvo*
 Recognition is valid from .. *1st April '67* .. List .. *16/1*
** is included in the 1300-series*
 The manufacturing of the model described in this recognition form was started on .. *22/8* .. 19*66*
 and the minimum production of .. *5000* .. identical cars, in accordance with the specifica-
 tions of this form was reached on .. *28/2* .. 19*67*

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 Sports Authority



Stamp and signature of the F. I. A.



Make

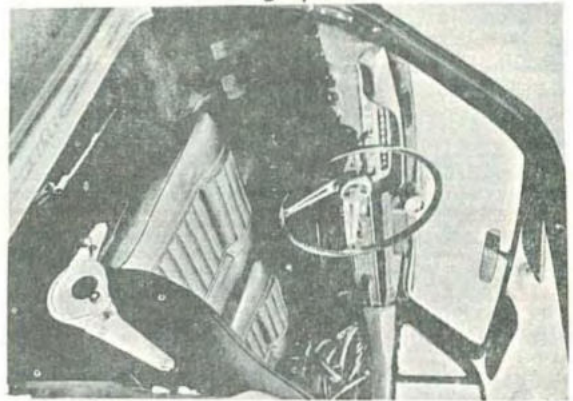
Model

F.I.A. Rec.No

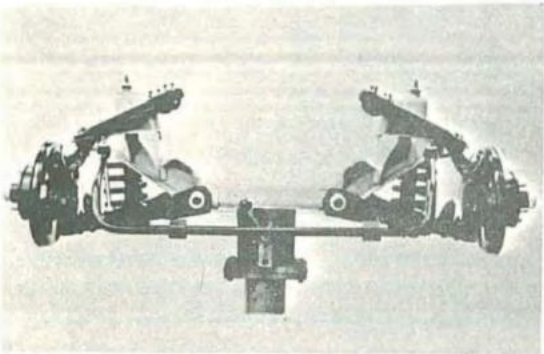
Photograph B



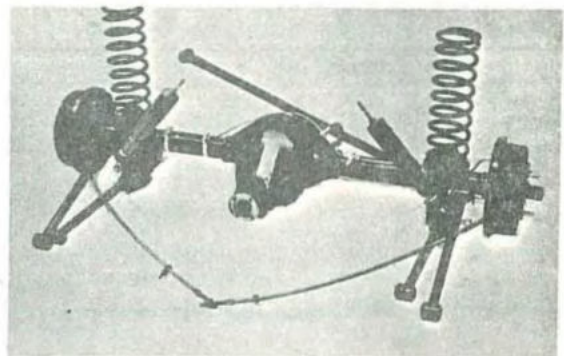
Photograph C



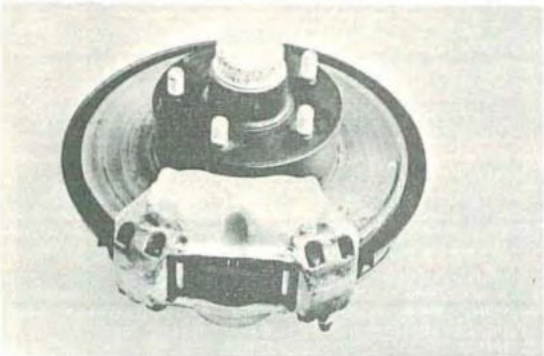
Photograph D



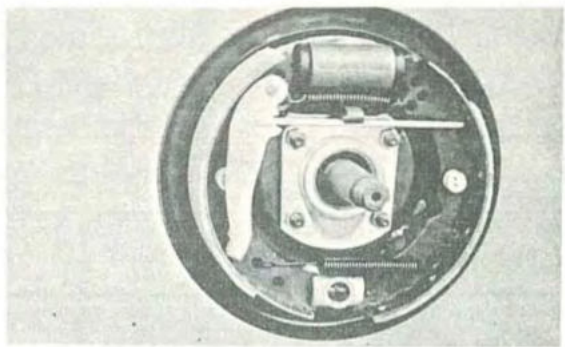
Photograph E



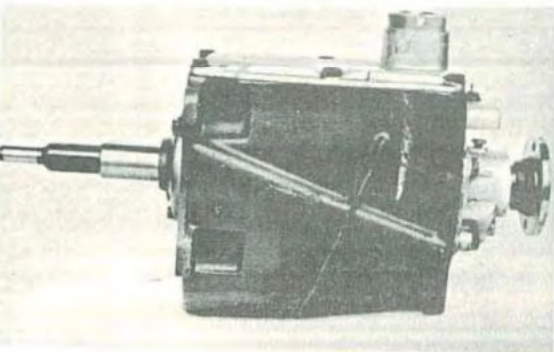
Photograph F



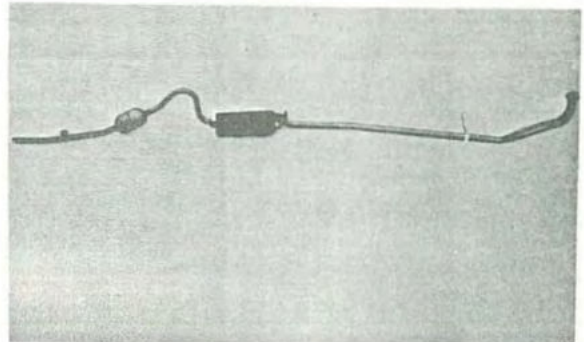
Photograph G



Photograph H



Photograph I

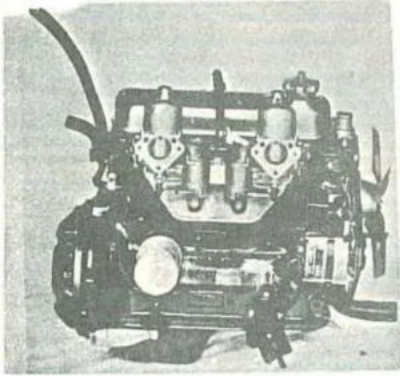


Make

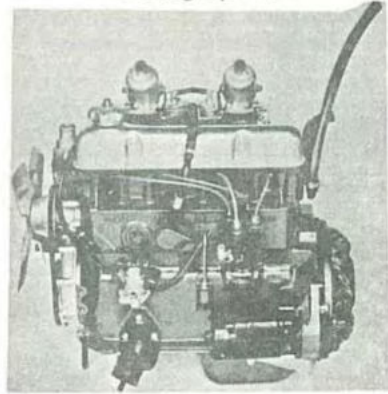
Model

F.I.A. Rec.No

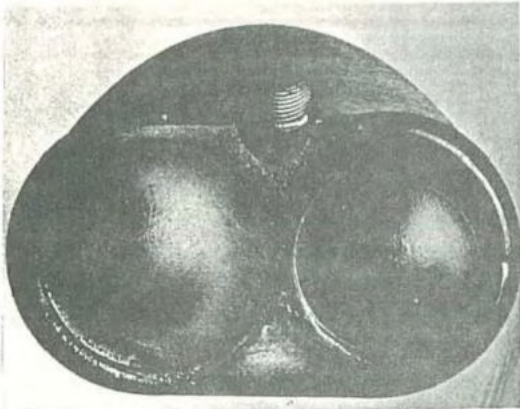
Photograph J



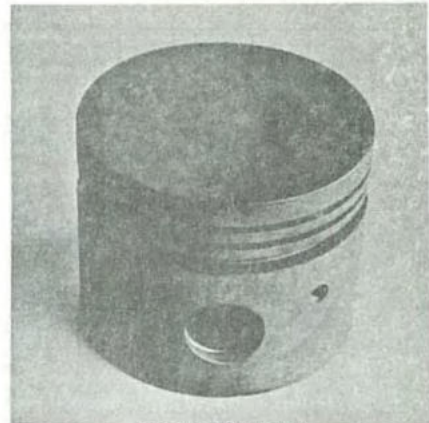
Photograph K



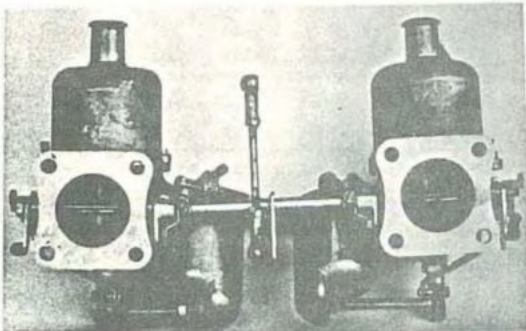
Photograph L



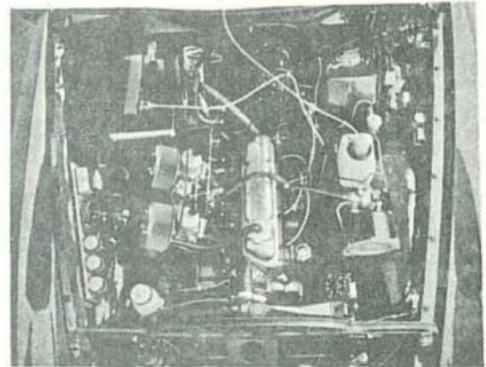
Photograph M



Photograph N



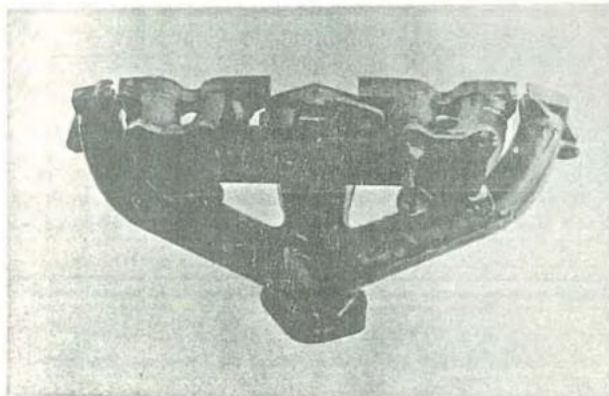
Photograph O



Photograph P

Photograph Q

inlet manifold



Make

Model

F.I.A. Rec.No

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



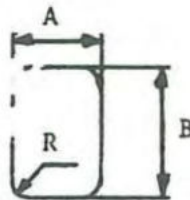
$$\varnothing 36 \pm 0,31$$

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



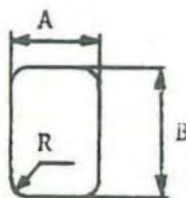
$$\varnothing 36 \pm 0,31$$

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



$$\begin{aligned} A &= 27 \pm 0,8 \\ B &= 40 \pm 0,8 \\ R &= 5 \pm 0,8 \end{aligned}$$

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



$$\begin{aligned} A &= 25 \pm 0,8 \\ B &= 38 \pm 0,8 \\ R &= 4 \pm 0,8 \end{aligned}$$

Make

Model

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> | 2600 | mm | 102 1/2 | inches |
| 2. <u>Front track</u> | 1315 | mm | 51 3/4 | inches * |
| 3. <u>Rear track</u> | 1315 | mm | 51 3/4 | inches * |
| 4. Overall length of the car | | 444 | cm | inches |
| 5. Overall width of the car | | 163 | cm | inches |
| 6. Overall height of the car | | 147 | cm | inches |
| 7. <u>Capacity of fuel tank</u> (reserve included) | | 12 Gallon US | | 45 ltrs
10 Gallon Imp. |
| 8. Seating capacity | 5 | | | |
| 9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools: | | 1013 kg | 2233 lbs | 19.9 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

Make

Model

F.I.A. Rec.No

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, vinyl*

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

per chair 15 kg

lbs

43. Rear seats, type of seat and upholstery *berch, vinyl*

44. Front bumper, material (s) *chrome-plated steel* Weight *9,6* kg lbs

45. Rear bumper, material (s) *chrome-plated steel* Weight *9,6* kg lbs

WHEELS

50. Type *disc wheels*

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

52. Method of attachment *with 5 nuts*

53. Rim diameter *381* mm *15* inches

54. Rim width *102* 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

Make

Model

F.I.A. Rec.No

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*
- 91. Servo-assistance (if fitted), type *vacuum servo*
- 92. Number of hydraulic master cylinders *1*

	FRONT		REAR	
93. Number of cylinders per wheel	<i>3</i>		<i>1</i>	
94. Bore of wheel cylinder (s)	<i>2x38</i> <i>1x54</i> mm	in.	<i>22,2</i> mm	in.
Drum brakes				
95. Inside diameter	mm	in.	<i>228,6</i> mm	in.
96. Length of brake linings	mm	in.	<i>220x2</i> mm	in.
97. Width of brake linings	mm	in.	<i>50</i> mm	in.
98. Number of shoes per brake			<i>2</i>	
99. Total area per brake	mm ²	sq.in.	<i>2100</i> mm ²	sq.in.
Disc brakes				
100. Outside diameter	<i>268,5</i> mm	in.	mm	in.
101. Thickness of disc	<i>12,7</i> mm	in.	mm	in.
102. Length of brake linings	<i>85</i> mm	in.	mm	in.
103. Width of brake linings	<i>52</i> mm	in.	mm	in.
104. Number of pads per brake	<i>2</i>			
105. Total area per brake	<i>9100</i> mm ²	sq.in.	mm ²	sq.in.

Make

Model

F.I.A. Rec.No

ENGINE (photographs J and K)

- 130. Cycle *4-Stroke*
- 131. Number of cylinders *4*
- 132. Cylinder arrangement *in line*
- 133. Bore *84,14 ± 0,01* mm *3,313* in.
- 134. Stroke *80,0 ± 0,01* mm *3,15* in.
- 135. Capacity per cylinder *444,5* cm³ *27,13* cu.in.
- 136. Total cylinder-capacity *1778* cm³ *109* cu.in.
- 137. Material (s) of cylinder block *cast iron*
- 138. Material (s) of sleeves (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 *10,0:1*
- 143. Volume of one combustion chamber *49,5* 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: ~~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 pts quarts US
- 153. Oil cooler: *yes* / no
- 154. Method of engine cooling *water*
- 155. Capacity of cooling system *8,6* ltrs pints quarts US
- 156. Cooling fan (if fitted), dia. *33,5* cm inches
- 157. Number of blades of cooling fan *4*

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 *0,580* kg lbs

Make

Model

F.I.A. Rec.No

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 *40* mm *1,58* inches
 182. Max. valve lift *10,2* mm *0,40* 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) *1,44* mm *inches*
 187. Valves open at (with tolerance for tappet clearance indicated) *0° T.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*
 196. Diameter of valves *35* mm *1,38* inches
 197. Max. valve lift *10,2* mm *0,40* 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) *1,44* mm *inches*
 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) *0° A.T.D.C.*

CARBURETION (photograph N)

210. Number of carburettors fitted *2*
 211. Type *horizontal*
 212. Make *SU*
 213. Model *HS-6*
 214. Number of mixture passages per carburettor *1*
 215. Flange hole diameter of exit port (s) of carburettor *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

Make

Model

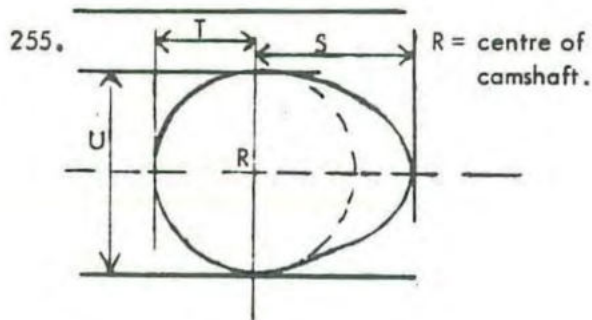
F.I.A. Rec.No

ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~and/or electric~~
- 231. No fitted /
- 232. Type of ignition system *coil*
- 233. No of distributors /
- 234. No of ignition coils /
- 235. No of spark plugs per cylinder /
- 236. Generator, type : ~~dynamo~~/alternator - number fitted /
- 237. Method of drive *belt driven*
- 238. Voltage of generator *12* volts
- 239. Battery, number /
- 240. Location *under bonnet against firewall*
- 241. Voltage of battery *12* volts

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

- 250. Max. engine output *115 hp* (type of horsepower: *SAE*) at *6000* rpm
- 251. Maximum rpm *6000* output at that figure *115*
- 252. Maximum torque *15,5 kgm* *SAE* *4000* rpm
- 253. Maximum speed of the car km/hour miles/hour



Inlet cam			
S =	<i>21,3</i>	mm	<i>0,83</i> inches
T =	<i>14,6</i>	mm	inches
U =	<i>29,418</i>	mm	inches
Exhaust cam			
S =	<i>21,3</i>	mm	<i>0,83</i> inches
T =	<i>14,6</i>	mm	inches
U =	<i>29,418</i>	mm	inches

Make

Model

F.I.A. Rec.No

DRIVE TRAIN
CLUTCH

- 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 *hydraulic*

GEAR BOX (photograph H)

- 270. Manual type, make *Volvo M 41* Method of operation *manual*
- 271. No of gear-box ratios forward *4*
- 272. Synchronized forward ratios *4*
- 273. Location of gear-shift *centre floor lever*
- 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	<i>3,13:1</i>	<i>33:15</i>						
2	<i>1,99:1</i>	<i>28:20</i>						
3	<i>1,36:1</i>	<i>23:22</i>						
4	<i>1:1</i>							
5								
6								
reverse								

- 278. Overdrive, type *electrically-operated*
- 279. Forward gears on which overdrive can be selected *No 4*
- 280. Overdrive ratio *0,756:1*

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 *4,56:1*
- Number of teeth *41:9*

Make

Model

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.

F.I.A. Recognition No .5313.....

Group1.....

FEDERATION INTERNATIONALE DE L' AUTOMOBILE

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

Manufacturer AB VOLVO	Cylinder-capacity	..1286.....cm3..121.4...in3
Serial No of chassis	..312500.....	Model122 S.....
Serial No of engine	..1.....	Manufacturer AB VOLVO
Recognition is valid from	..1/1/70.....	Manufacturer AB VOLVO
		List	..70/1.....

The manufacturing of the model described in this recognition form was started on ..15.8.19 68 and the minimum production of ..5000... identical cars, in accordance with the specifications of this form was reached on ..26.2.....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

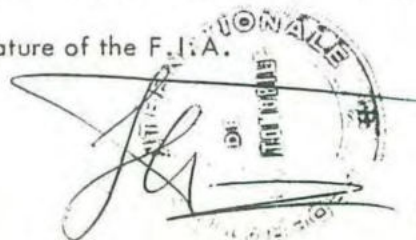
Normal evolution of the type

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.

[Handwritten signature]



Make

VOLVO

Model

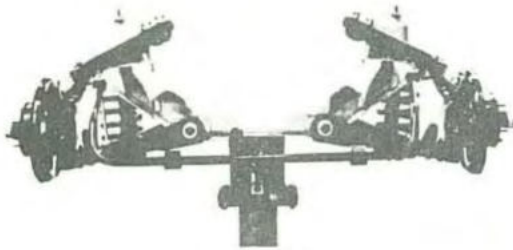
122 S

F.I.A. Rec.No

Photograph B



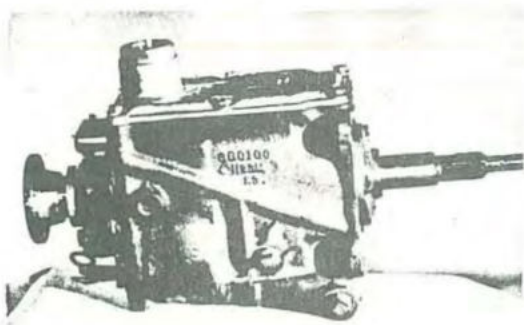
Photograph D



Photograph F



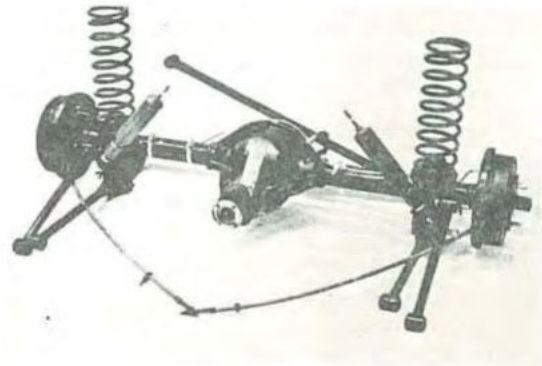
Photograph H



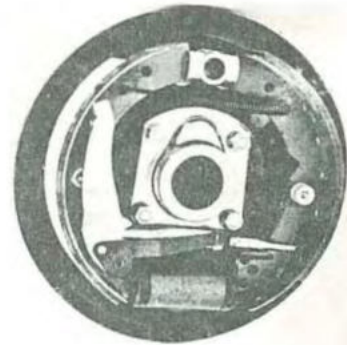
Photograph C



Photograph E



Photograph G



Photograph I



Make

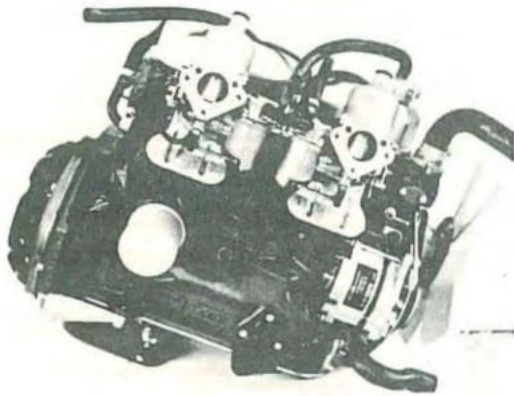
VOLVO

Model

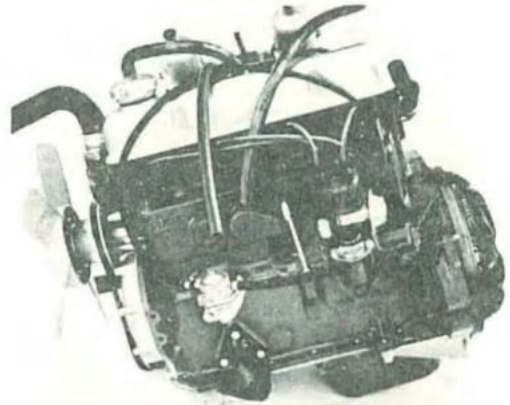
122 3

F.I.A. Rec.No

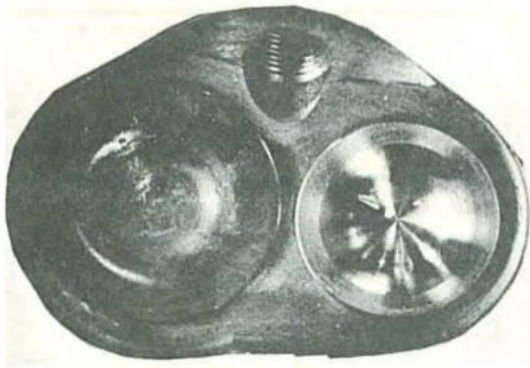
Photograph J



Photograph K



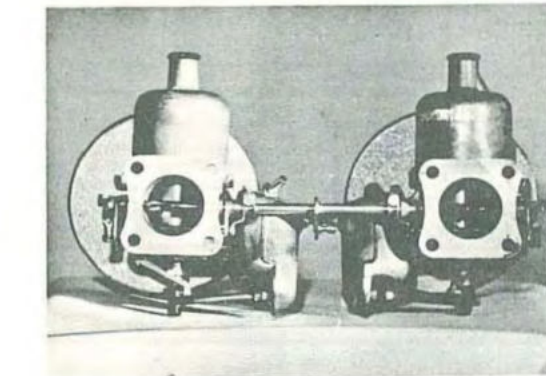
Photograph L



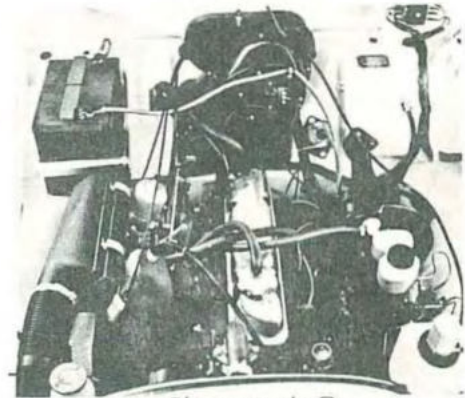
Photograph M



Photograph N



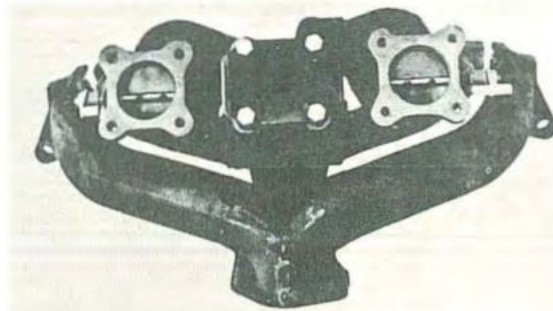
Photograph O



Photograph P

Photograph Q

inlet manifold

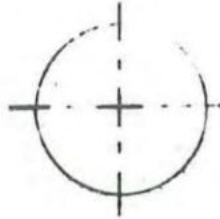


Make VOLVO

Model 122 S

F.I.A. Rec.No

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



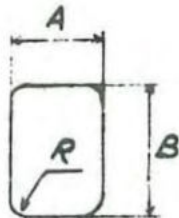
$$\begin{aligned} \phi & 36 \pm 0,25 \\ & - 0 \end{aligned}$$

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



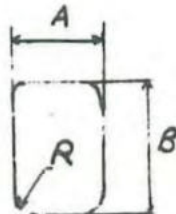
$$\begin{aligned} \phi & 36 \pm 0,25 \\ & - 0 \end{aligned}$$

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



$$\begin{aligned} A & = 27 \pm 0,7 \\ B & = 40 \pm 0,7 \\ R & = 5 \pm 1 \end{aligned}$$

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



$$\begin{aligned} A & = 25 \pm 0,7 \\ B & = 38 \pm 0,7 \\ R & = 4 \pm 1 \end{aligned}$$



Make VOLVO

Model 122 S

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>	2600	mm	102 1/2	inches	
2. <u>Front track</u>	1315	mm	51 3/4	inches *	
3. <u>Rear track</u>	1315	mm	51 3/4	inches *	
4. Overall length of the car	445	cm			inches
5. Overall width of the car	162	cm			inches
6. Overall height of the car	150,5	cm			inches
7. <u>Capacity of fuel tank</u> (reserve included)					45 ltrs
	12	Gallon US		10	Gallon Imp.
8. Seating capacity	5				
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:					
	1045	kg	2297	lbs	20,9 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

Make VOLVO Model 122 S F.I.A. Rec.No

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
 24. Number of doors ? 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 WINDBERS
 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, VINYL
 42. Weight of front seat (s), complete with supports and rails, out of the car :

14,6 kg lbs

43. Rear seats, type of seat and upholstery BENCH, VINYL
 44. Front bumper, material (s) CHROME-PLATED STEEL Weight 9,6 kg lbs
 45. Rear bumper, material (s) CHROME-PLATED STEEL Weight 9,6 kg lbs

WHEELS

50. Type DISC WHEELS
 51. Weight (per wheel, without tyre) 6,9 kg lbs
 52. Method of attachment WITH 5 NUTS
 53. Rim diameter 381 mm 15 inches
 54. Rim width 101 mm 4 inches

STEERING

60. Type GEAR 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



Make VOLVO

Model 122 J

F.I.A. Rec.No

SUSPENSION

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

BRAKES (photographs F and G)

- 90. Method of operation HYDRAULIC, DUAL- CIRCUIT SYSTEM
- 91. Servo-assistance (if fitted), type VACUUSERVO
- 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.	295 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	7,300	mm ²	sq.in.	4650 mm ²	sq.in.



Make VOLVO

Model 122 3

F.I.A. Rec.No

ENGINE (photographs J and K)

- 130. Cycle 4 - STROKE
- 131. Number of cylinders 4
- 132. Cylinder arrangement IN LINE
- 133. Bore $88,9 \pm 0,01$ mm in.
- 134. Stroke $80,0 \pm 0,01$ mm 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 9,2:1
- 143. Volume of one combustion chamber 52,0 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 : ~~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 pts quarts US
- 153. Oil cooler: ~~yes~~ / no
- 154. Method of engine cooling WATER
- 155. Capacity of cooling system 8,0 ltrs pints quarts US
- 156. Cooling fan (if fitted), dia. 36 cm 14 inches
- 157. Number of blades of cooling fan 5

Bearings

- 158. Crankshaft main, type Dia. 63,45 mm COITER-LEAD-INDIUM
- 159. Connecting rod big end, type Dia. 54,1 mm COITER-LEAD-INDIUM

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 0,600 kg lbs
- 164. Piston with rings and pin 0,710 kg lbs



Make VOLVO

Model 122 S

F.I.A. Rec.No

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 42 mm 1,65 inches
182. Max. valve lift 10,2 mm 0,40 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) 1,44 mm inches
187. Valves open at (with tolerance for tappet clearance indicated) 0° T.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
196. Diameter of valves 35 mm 1,38 inches
197. Max. valve lift 10,2 mm 0,40 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) 1,44 mm inches
202. Valves open at (with tolerance for tappet clearance indicated) 40° B.F.D.C.
203. Valves close at (with tolerance for tappet clearance indicated) 0° A.T.D.C.

CARBURETION (photograph N)

210. Number of carburettors fitted 2
211. Type HORIZONTAL
212. Make SU
213. Model HS-6
214. Number of mixture passages per carburettor 1
215. Flange hole diameter of exit port (s) of carburettor 45 mm 1 3/4 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

Make VOLVO

Model 122 S

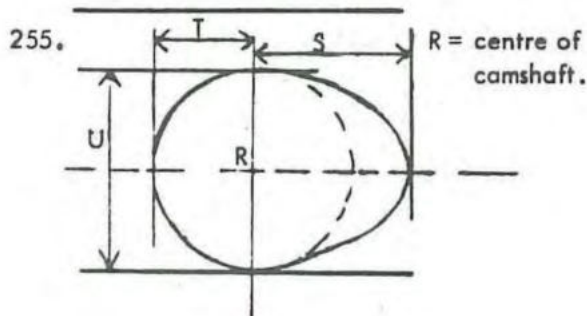
F.I.A. Rec.No

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 DRIVEN
238. Voltage of generator 12 volts
239. Battery, number 1
240. Location ENGINE COMPARTMENT, LEFT FRONT
241. Voltage of battery 12 volts

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

250. Max. engine output 118 (type of horsepower:SAE) at 5.800 rpm
251. Maximum rpm 5.800 output at that figure 118 SAE
252. Maximum torque 17,0 at KGM SAE 3.500 rpm
253. Maximum speed of the car km/hour miles/hour



Inlet cam

S =	21,3	mm	0,831	inches
T =	14,6	mm	0,575	inches
U =	29,418	mm	1,158	inches

Exhaust cam

S =	21,3	mm	0,830	inches
T =	14,6	mm	0,575	inches
U =	29,418	mm	1,158	inches

Make VOLVO

Model 122 S

F.I.A. Rec.No

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 21,6 cm in.

264. Method of operating clutch MECHANICAL

GEAR BOX (photograph H)

270. Manual type, make VOLVO M 40

Method of operation

271. No of gear-box ratios forward 4

272. Synchronized forward ratios 4

273. Location of gear-shift CENTRE FLOOR LEVER

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			2,62:1	33:15		
2	1,99:1	28:20			1,67:1	28:20		
3	1,36:1	22:23			1,24:1	23:22		
4	1:1				1:1			
5								
6								
reverse	3,25:1	32:19			3,25:1	32:19		

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 4,56:1 4,88:1

Number of teeth 41:9 39:8



Make VOLVO

Model 122 S

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.

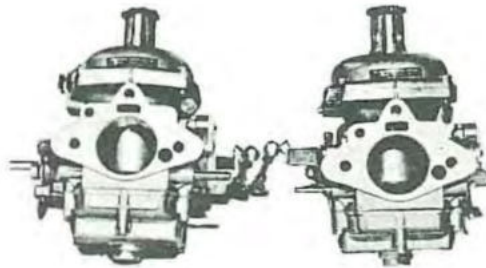
Optional equipment affecting preceding information. This to be stated together with reference number.

CONCERNS GROUP I ONLY

CARBURETTOR

ZENITH - STROMBERG

175 CD - 2 SE



Front 237437
Rear 237438

FINAL DRIVE RATIO 4,10:1 273126
NUMBER OF TEETH 41:10
LIMITED SLIP DIFFERENTIAL SPILER/DANA "POWR-LOK" 384479
DISC WHEELS 668280
RIM DIAMETER 381 mm 15 inches
RIM WIDTH 114 mm 4½ inches



Make VOLVO

Model 122 S

F.I.A. Rec.No.

CONCERNS GROUP II

Cylinder head



419894





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

5003/1/V
GRT II

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. 1/1/70 - List 70/4 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 Volvo 122S

Date when the first vehicles in this stage of development were manufactured
Tillverkningsdatum för de första fordonen av denna vidareutveckling 1st of February, 1970

Serial No. of the type inaugurating this extension
Nummerserie för denna utvecklade typ 133341312500

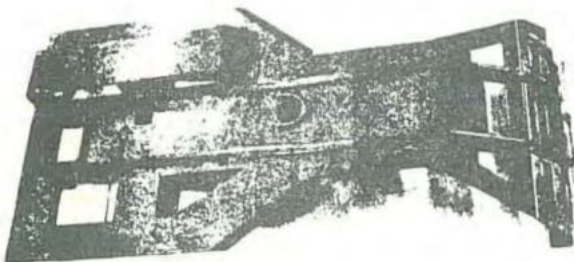
The
Modellen 122S recognized in Category
klassad i kategori Group I

by the F.I.A. on the
av FIA den 1st of January, 1970 List
Lista 70/1 as a normal
som normal

development of the original vehicle type.
utveckling av vagnstypen

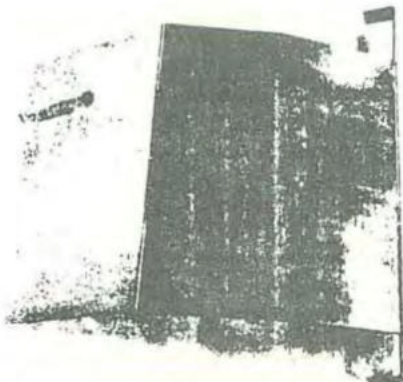
Stamp and signature of the F.I.A.
FIA:s signatur och stämpel

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



Protection plate - front, steel Part No. 55210
Skyddsplåt - främre, stål Det. Nr. 55210

Same as above - of aluminium Part No. 552111
Som ovan - av aluminium Det. Nr. 552111

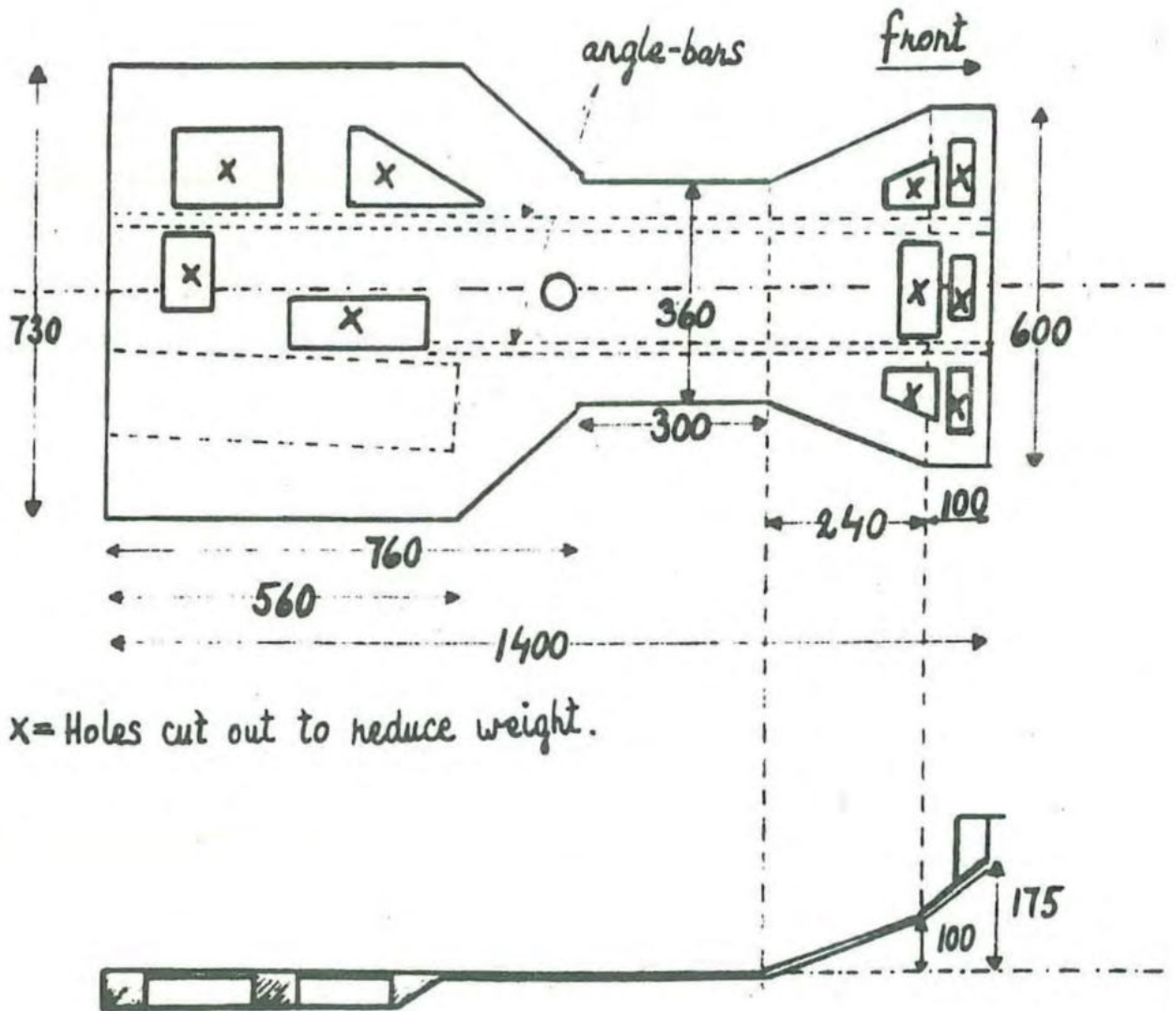


Protection plate - rear, steel Part No. 552108
Skyddsplåt - bakre, stål Det. Nr. 552108

Same as above - of aluminium Part No. 552112
Som ovan - av aluminium Det. Nr. 552112

[Handwritten signature]

PROTECTION PLATE, FRONT VOLVO 122S



Two angle-bars — 25 x 25 x 4 mm — welded alongside bottom of protection plate.

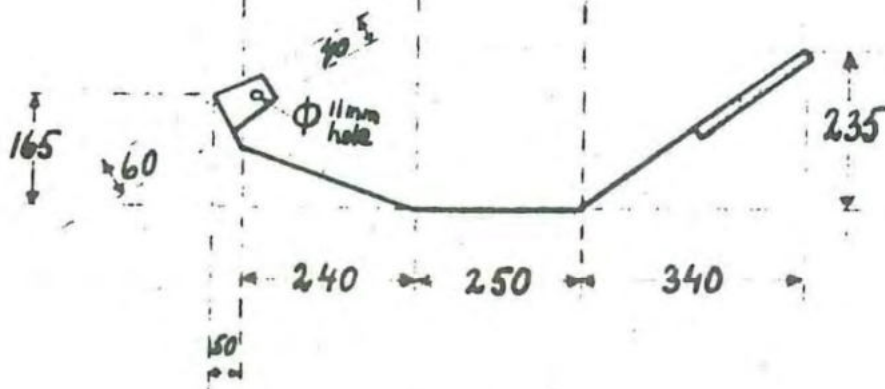
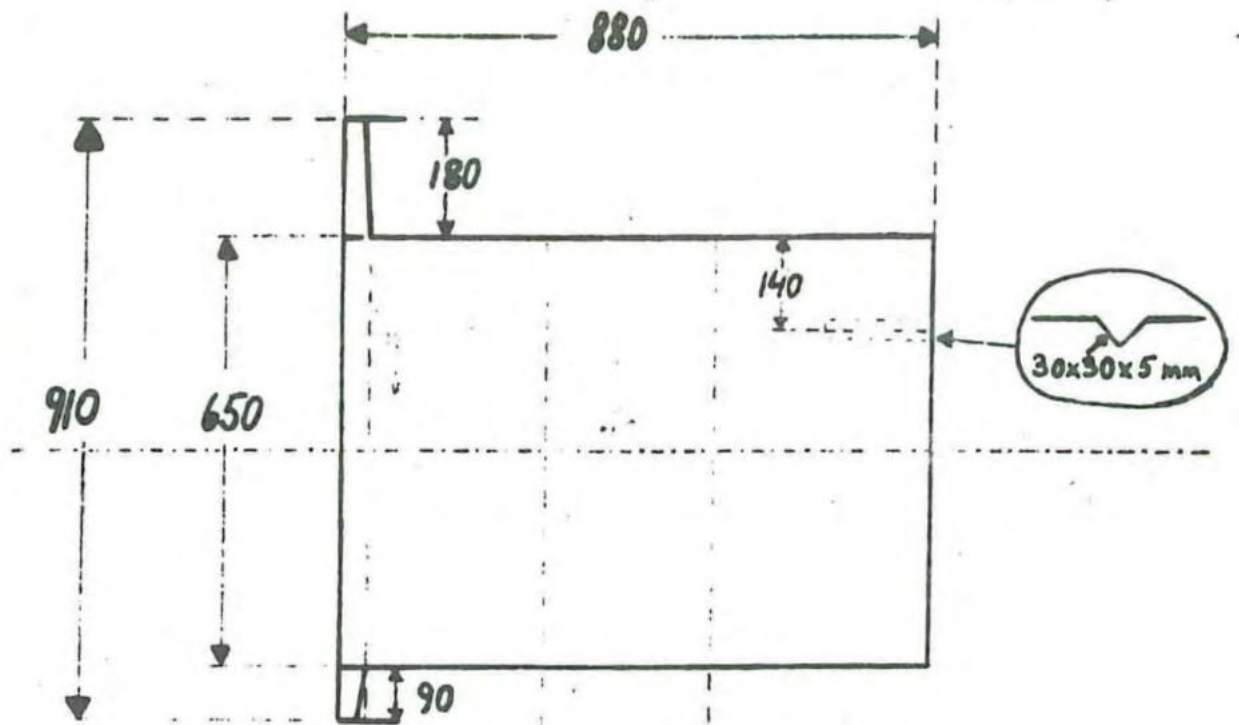
Material: 4 mm steel-plate.

Weight: 31 kilos. 68.2 lbs.

Scale: 1:10

0 100 200 300 400 500 mm

PROTECTION PLATE, REAR VOLVO 122 S

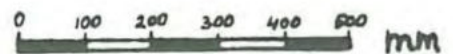


Material: 5 mm steel-plate.

Weight: 33 1/2 kilos.

73.7 kg

Scale: 1:10



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

No. Nr	Make Märke	VOLVO	Type Typ	Volvo 122S
-----------	---------------	-------	-------------	------------

Photographic documentation
Fotografier



Front axle cross-member
Framaxelbalk

PartNo. 525781
Det. Nr.



Lower wishbone - LEFT
Nedre länkarm - VÄNSTER

PartNo. 552133
Det. Nr.



Stockholm den

24/1 1970

KUNGL AUTOMOBIL KLUBBEN

SVENSKA ENSPORSBILSKLUBBEN

17 17

[Handwritten signature]

F.I.A. Recognition No **5208**
 Group ... **1** ... Series - **Production**
Touring

FEDERATION INTERNATIONALE DE L' AUTOMOBILE

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

Manufacturer ... **A. B. Volvo** Cylinder-capacity ... **1778** ... cm3 **109** ... in3
 Model **1425**
 Serial No of chassis **1** Manufacturer ... **A. B. Volvo**
 engine **9688** Manufacturer ... **A. B. Volvo**
 Recognition is valid from .. **1st Jan. 68** List ... **1968/1**

The manufacturing of the model described in this recognition form was started on **18/5** .1967
 and the minimum production of **5000** ... identical cars, in accordance with the specifica-
 tions of this form was reached on **1/10**1967.

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.

Make *Volvo*

Model *142 S*

F.I.A. Rec.No

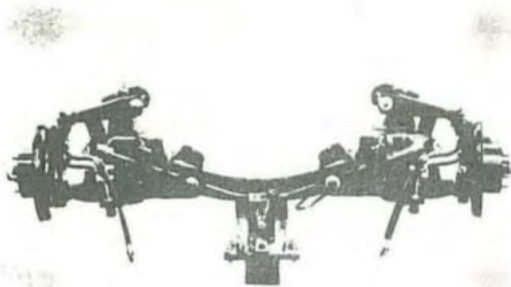
Photograph B



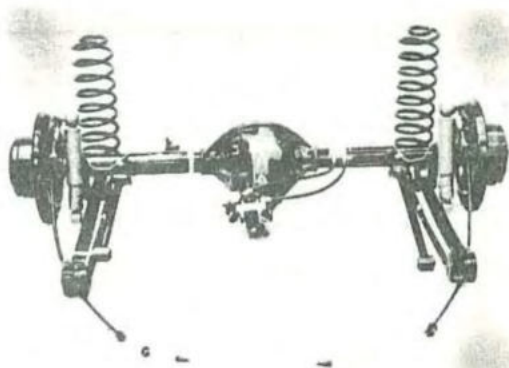
Photograph C



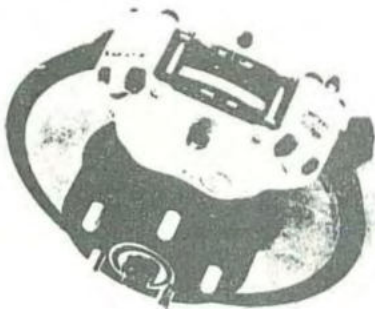
Photograph D



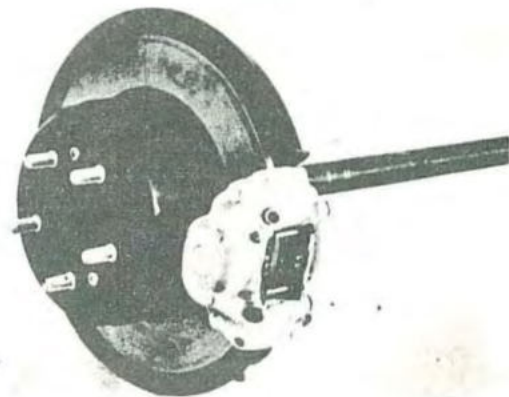
Photograph E



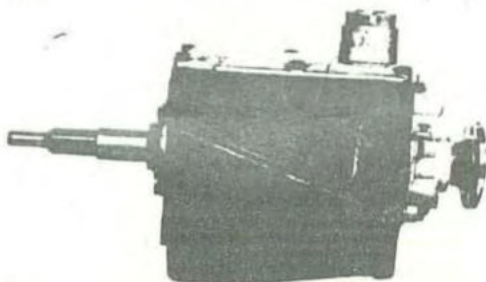
Photograph F



Photograph G



Photograph H



Photograph I

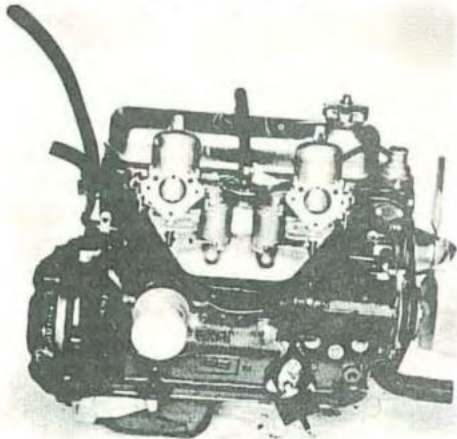


Make *Volvo*

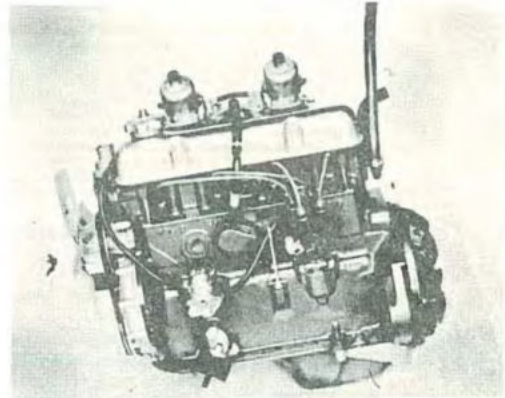
Model *142 S*

F.I.A. Rec.No

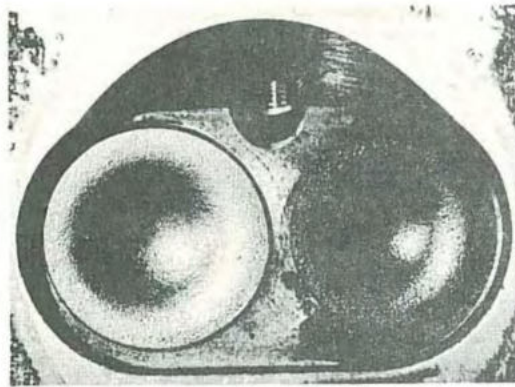
Photograph J



Photograph K



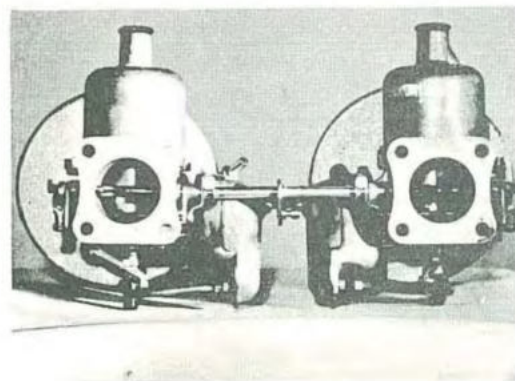
Photograph L



Photograph M



Photograph N



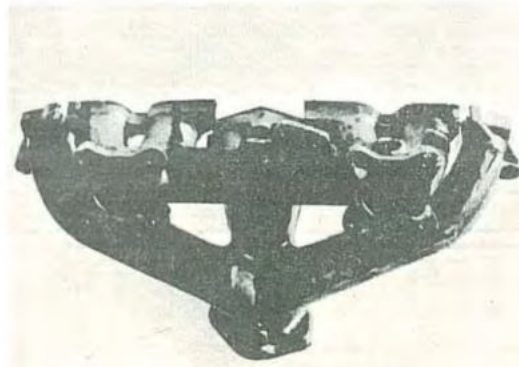
Photograph O



Photograph P

Photograph Q

inlet manifold



Make *Volvo*

Model *142 S*

F.I.A. Rec.No

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



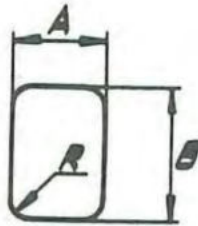
$\varnothing 36 \pm 0,31$

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



$\varnothing 36 \pm 0,31$

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



$A = 27 \pm 0,8$
 $B = 40 \pm 0,8$
 $R = 5 \pm 0,8$

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



$A = 25 \pm 0,8$
 $B = 38 \pm 0,8$
 $R = 4 \pm 0,8$



Make *Volvo*

Model *142 S*

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.

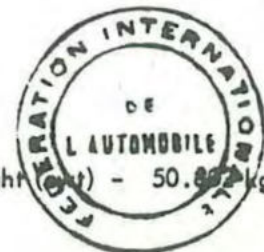
CAPACITIES AND DIMENSIONS

- | | | | | |
|---|-------------|-----------|----------------|------------------------|
| 1. <u>Wheelbase</u> | <i>2600</i> | mm | <i>102 1/2</i> | inches |
| 2. <u>Front track</u> | <i>1350</i> | mm | <i>53 1/8</i> | inches * |
| 3. <u>Rear track</u> | <i>1350</i> | mm | <i>53 1/8</i> | inches * |
| 4. Overall length of the car | <i>464</i> | cm | | inches |
| 5. Overall width of the car | <i>174</i> | cm | | inches |
| 6. Overall height of the car | <i>146</i> | cm | | inches |
| 7. <u>Capacity of fuel tank</u> (reserve included) | <i>15</i> | Gallon US | <i>13 58</i> | ltrs
Gallon Imp. |
| 8. Seating capacity | <i>5</i> | | | |
| 9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools: | <i>1073</i> | kg | <i>2366</i> | lbs
<i>21,1</i> 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	
1 foot/pied	- 30.4794 cm	1 pint (pt)	
1 square inch/pouce carré	- 6.452 cm ²	1 gallon Imp.	
1 cubic inch/pouce cube	- 16.387 cm ³	1 gallon US	
1 pound/livre (lb)	- 453.593 gr.	1 hundred weight	(cwt) - 50.802 kg



Make VOLVO

Model 142 S

F.I.A. Rec.No

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, COMBINATION OF 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 4 1/2 inches

STEERING

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



Make **VOLVO**

Model **142 S**

F.I.A. Rec.No

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, 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			
94. Bore of wheel cylinder (s)	4x36	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.	295	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.



Make **VOLVO**

Model **1425**

F.I.A. Rec.No

ENGINE (photographs J and K)

- 130. Cycle **4-STROKE**
- 131. Number of cylinders **4**
- 132. Cylinder arrangement **IN LINE**
- 133. Bore **84,14 ± 0,01** mm **3,313** in.
- 134. Stroke **80,0 ± 0,01** mm **3,15** in.
- 135. Capacity per cylinder **444,5** cm³ **27,13** 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
- 140. Number of inlet ports **4**
- 141. Number of exhaust ports **4**
- 142. Compression ratio **100:1**
- 143. Volume of one combustion chamber **49,5** 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 : ~~cast~~ / stamped
- 148. Type of crankshaft : integral/.....
- 149. Number of crankshaft main bearings **5**
- 150. Material of bearing cap **CAST IRON**
- 151. System of lubrication : ~~pressure~~ / oil in sump
- 152. Capacity, lubricant **3,75** ltrs pts quarts US
- 153. Oil cooler: ~~yes~~ / no
- 154. Method of engine cooling **WATER**
- 155. Capacity of cooling system **8,6** ltrs pints quarts US
- 156. Cooling fan (if fitted), dia. **33,5** cm inches
- 157. Number of blades of cooling fan **4**

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 **0,580** kg lbs



Make **VOLVO**

Model **1425**

F.I.A. Rec.No

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 **40** mm **1,58** inches
182. Max. valve lift **10,2** mm **0,40** 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) **1,44** mm **inches**
187. Valves open at (with tolerance for tappet clearance indicated) **0° T.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**
196. Diameter of valves **35** mm **1,38** inches
197. Max. valve lift **10,2** mm **0,40** 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) **1,44** mm **inches**
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) **0° A.T.D.C.**

CARBURETION (photograph N)

210. Number of carburettors fitted **2**
211. Type **HORIZONTAL**
212. Make **SU**
213. Model **HS-6**
214. Number of mixture passages per carburettor **1**
215. Flange hole diameter of exit port (s) of carburettor **45** 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



Make **VOLVO**

Model **142 S**

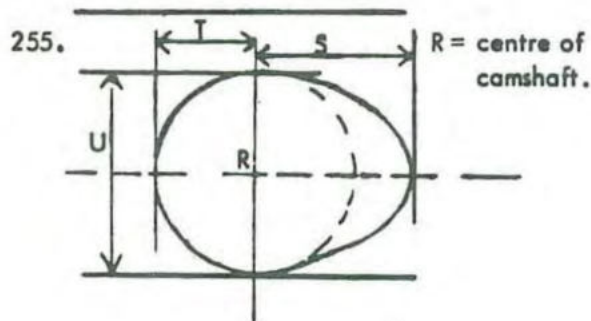
F.I.A. Rec.No

ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~electrical~~
- 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 DRIVEN
- 238. Voltage of generator 12 volts
- 239. Battery, number 1
- 240. Location ENGINE COMPARTMENT, LEFT FRONT
- 241. Voltage of battery 12 volts

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

- 250. Max. engine output 115 (type of horsepower: **SAE**) at 6000 rpm
- 251. Maximum rpm 6000 output at that figure 115
- 252. Maximum torque 15,5 KGM at **SAE** at 4000 rpm
- 253. Maximum speed of the car km/hour miles/hour



<u>Inlet cam</u>			
S =	<u>21,3</u>	mm	<u>0,83</u> inches
T =	<u>14,6</u>	mm	inches
U =	<u>29,418</u>	mm	inches
<u>Exhaust cam</u>			
S =	<u>21,3</u>	mm	<u>0,83</u> inches
T =	<u>14,6</u>	mm	inches
U =	<u>29,418</u>	mm	inches



Make **VOLVO**

Model **1423**

F.I.A. Rec.No

**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 **21,6** cm in.

264. Method of operating clutch **MECHANICAL**

GEAR BOX (photograph H)

270. Manual type, make **VOLVO M40**

Method of operation **MANUAL**

271. No of gear-box ratios forward **4**

272. Synchronized forward ratios **4**

273. Location of gear-shift **CENTRE FLOOR LEVER**

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			2,62	33:15		
2	1,99:1	28:20			1,67	28:20		
3	1,36:1	22:23			1,24	23:22		
4	1:1							
5								
6								
reverse								

278. Overdrive, type **ELECTRICALLY OPERATED OVERDRIVE**

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

280. Overdrive ratio **0,756:1**

FINAL DRIVE

290. Type of final drive **HYPID**

291. Type of differential **RIGID AXLE**

292. Type of limited slip differential (if fitted)

293. Final drive ratio **4,1 AND 4,56**

Number of teeth **41:10 41:9**



Make **VOLVO**

Model **142 S**

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.

CONCERNS GROUP II ONLY

FINAL DRIVE RATIO 4,88:1 674983
NUMBER OF TEETH 39:8

POWER-LOK DISC TYPE 384498

TUNING KIT 419398
WHICH ENABLES AN OUTPUT OF 128 HP AND CONTAINS THE FOLLOWING COMPONENTS:

CYLINDER HEAD 419351
INLET VALVE 419315
EXHAUST VALVE 419316
VALVE SPRING 418737
WASHER FOR SPRING 403500
PROTECTIVE RING 405357
LOCK TAP FOR WASHER 403315
GUIDE SLEEVES, INDUCTION 419378
GUIDE SLEEVES, EXHAUST 403390
GASKET, CYLINDER HEAD 419393
CAMSHAFT 419258
FLYWHEEL 419392
COVER FOR OIL PUMP 419395
TIMING GEAR CASING 418693
PACKING BOX FOR ABOVE 418668
HUB FOR PULLEY 418264
EXHAUST MANIFOLD 419381
METERING NEEDLE 237241
SPRING, VACUUM PLUNGER, CARBURETTER 237242



Group II only

Make **VOLVO**

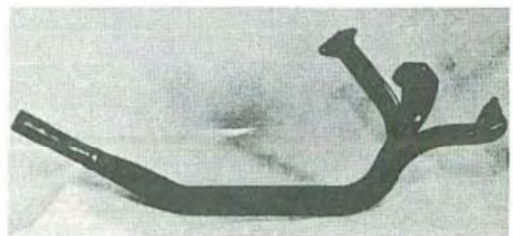
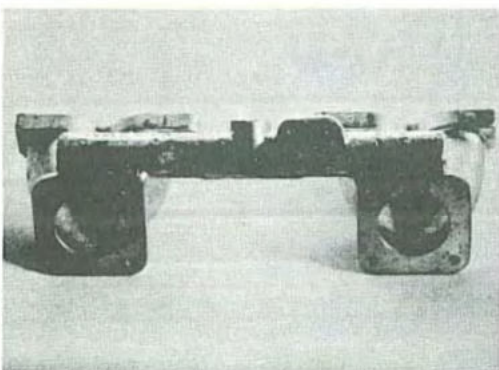
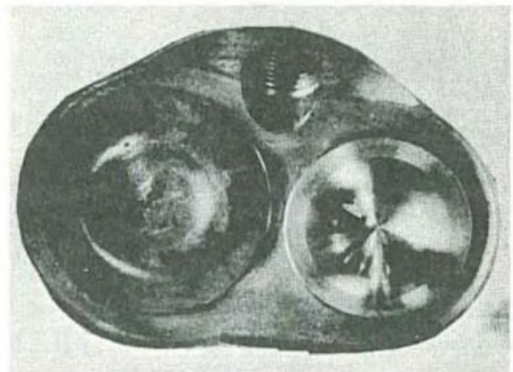
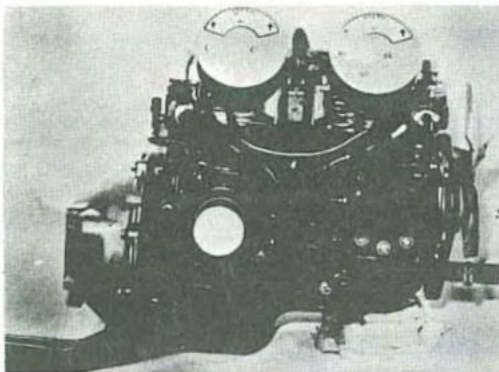
Model **1425**

F.I.A. Rec.No

IGNITION COIL 239499
SPARK PLUG W 280 T135 240571
SPARK PLUG W 240 T1 238624

ENGINE DATA TO BE ALTERED AS FOLLOWS:
COMPRESSION RATIO 11,1:1
VOLUME OF ONE COMBUSTION CHAMBER 38,5 CM³

	INLET	EXHAUST
VALVES OPEN	31°	73°
VALVES CLOSE	73°	31°
MAXIMUM LIFT	230°	230°
3/4 MAXIMUM	174°	174°
DIAMETER OF VALVES	42	35
DIAMETER OF PORT AT VALVE SEAT	41	34
TAPPET CLEARANCE FOR CHECKING TIME	0,4	0,4
MAXIMUM VALVE, LIFT AT VALVE PLAY=0	10,8	10,8



F.I.A. Recognition No 5314
 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...121,2...in3
 Model 142 S
 Serial No of chassis .52900 Manufacturer AB VOLVO
 engine .1 Manufacturer AB VOLVO
 Recognition is valid from... 1/1/72... List ... 6/1

The manufacturing of the model described in this recognition form was started on .15.8.19 68
 and the minimum production of .5.000... identical cars, in accordance with the specifica-
 tions of this form was reached on .15.11.....19 68

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.



[Handwritten signature]

Make VOLVO

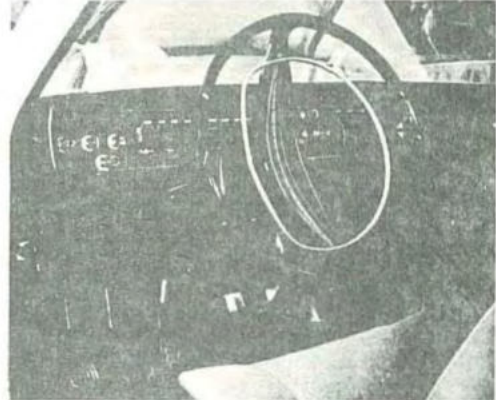
Model 142 S

F.I.A. Rec.No

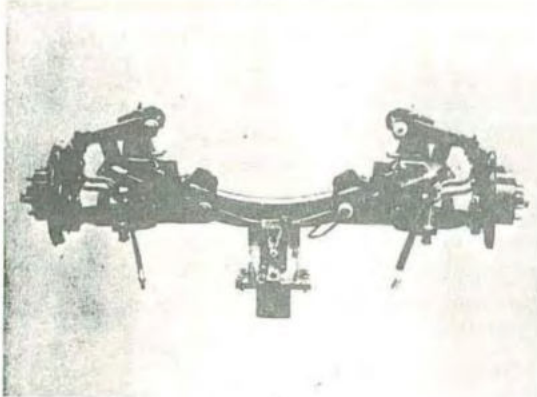
Photograph B



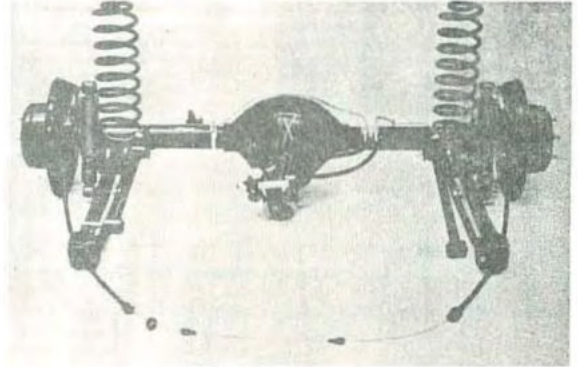
Photograph C



Photograph D



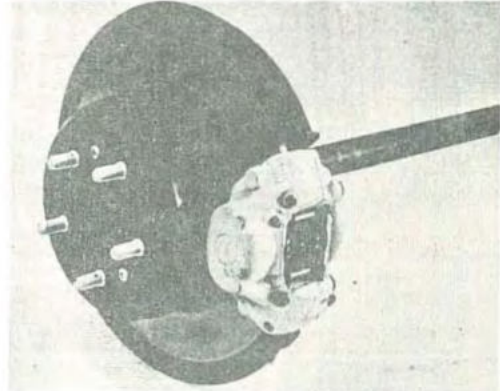
Photograph E



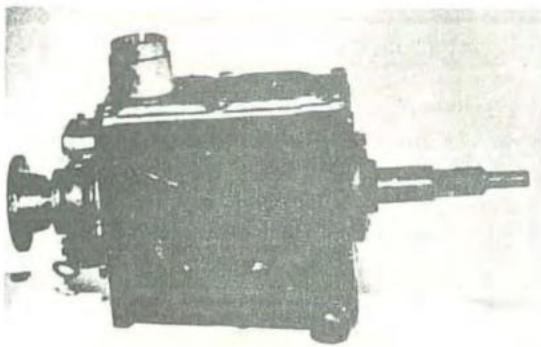
Photograph F



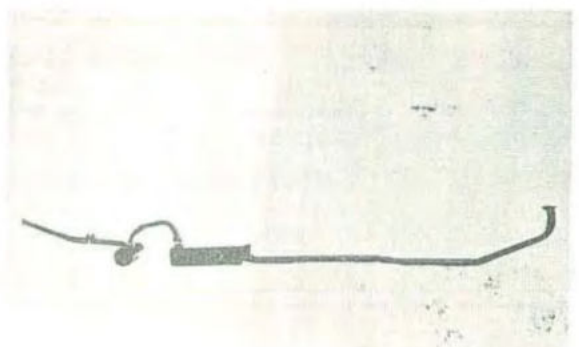
Photograph G



Photograph H



Photograph I



Make

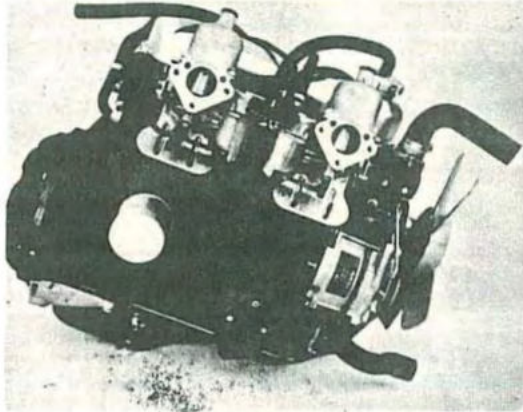
VELVO

Model

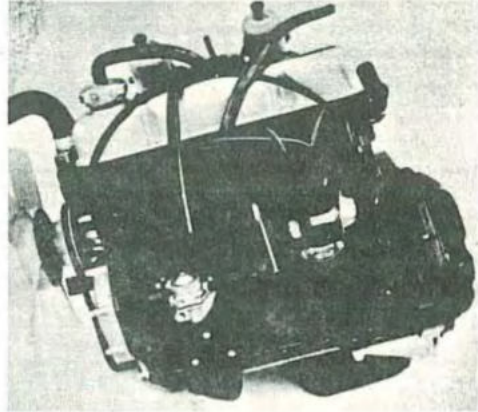
142 S

F.I.A. Rec.No

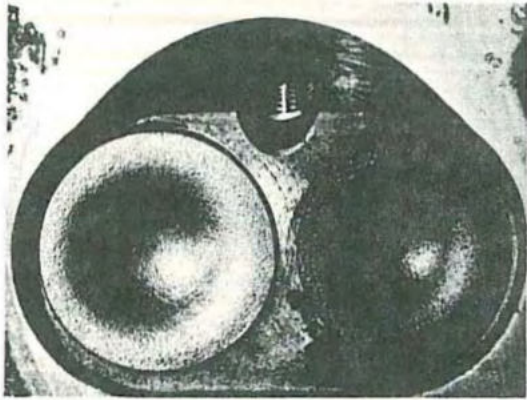
Photograph J



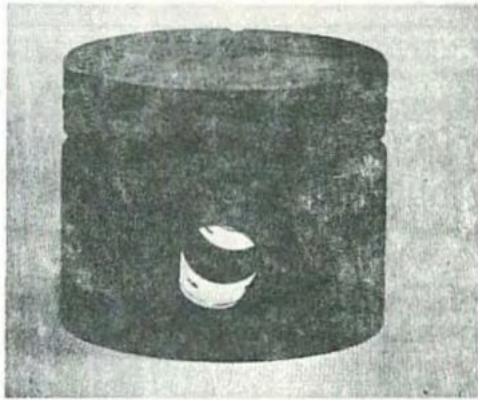
Photograph K



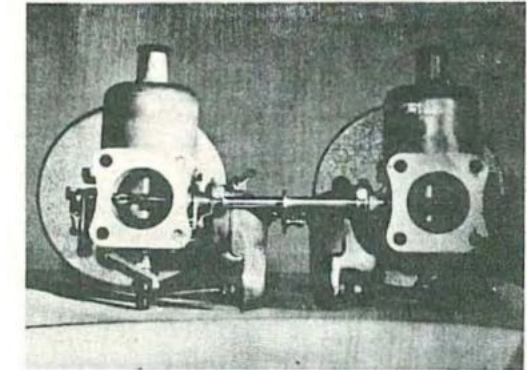
Photograph L



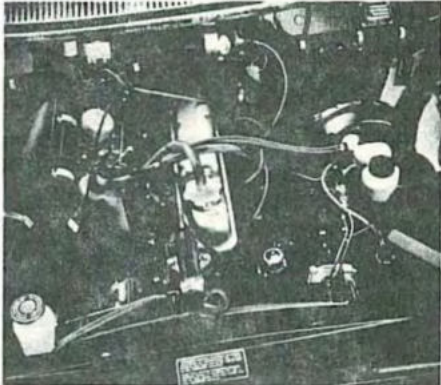
Photograph M



Photograph N



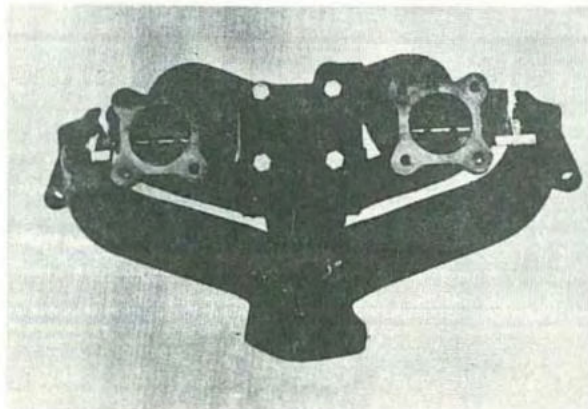
Photograph O



Photograph P

Photograph Q

inlet manifold



Make VOLVO

Model 142 S

F.I.A. Rec.No

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



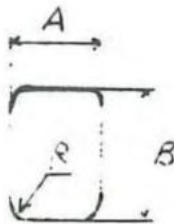
$$\phi 36 \begin{matrix} + 0,25 \\ - 0 \end{matrix}$$

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



$$\phi 36 \begin{matrix} + 0,25 \\ - 0 \end{matrix}$$

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

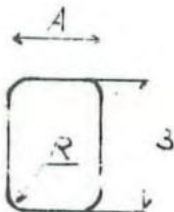


$$A = 27 \pm 0,7$$

$$B = 40 \pm 0,7$$

$$R = 5 \pm 1$$

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



$$A = 25 \pm 0,7$$

$$B = 40 \pm 0,7$$

$$R = 4 \pm 1$$



Make VOLVO

Model 142 S

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>	2600	mm	102 1/2	inches
2. <u>Front track</u>	1350	mm	53 1/8	inches *
3. <u>Rear track</u>	1350	mm	53 1/8	inches *
4. Overall length of the car	464	cm		inches
5. Overall width of the car	174	cm		inches
6. Overall height of the car	146	cm		inches
7. <u>Capacity of fuel tank</u> (reserve included)				58 ltrs
	15	Gallon US		13 Gallon Imp.
8. Seating capacity	5			
9. <u>Weight</u> , total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:				
	1120	kg	2464	lbs
				22,40 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	- 0.946 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

Make **VOLVO**

Model **142 S**

F.I.A. Rec.No

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 (Steel)**

25. Material (s) of bonnet **SHEET METAL (Steel)**

26. Material (s) of boot lid **SHEET METAL (Steel)**

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, 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, 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 **4 1/2** inches

STEERING

60. Type **CAM AND ROLLER**

61. Servo-assistance : ~~yes~~ - no

62. Number of turns of steering wheel from lock to lock **4,1**

63. In case of servo-assistance



Make VOLVO

Model 142 S

F.I.A. Rec.No

SUSPENSION

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

BRAKES (photographs F and G)

90. Method of operation HYDRAULIC, DUAL-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	
94. Bore of wheel cylinder (s)	4x36 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.	295 mm	in.
101. Thickness of disc	12,8 mm	in.	96 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.

Make VOLVO

Model 142 S

F.I.A. Rec.No

ENGINE (photographs J and K)

- 130. Cycle 4-STROKE
- 131. Number of cylinders 4
- 132. Cylinder arrangement IN LINE
- 133. Bore 88,9 - 0 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 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 3
- 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
- 150. Material of bearing cap CAST IRON
- 151. System of lubrication : ~~dry sump~~ / oil in sump
- 152. Capacity, lubricant 3,75 ltrs pts quarts US
- 153. Oil cooler: ~~yes~~ / 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

- 158. 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) 15,9 kg lbs
- 162. Crankshaft 16,7 kg lbs
- 163. Connecting rod 0,680 kg lbs
- 164. Piston with rings and pin 0,710 kg lbs



Make VOLVO

Model 142 S

F.I.A. Rec.No

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 42 mm 1,65 inches
- 182. Max. valve lift 110,2 mm 0,40 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) 1,44 mm inches
- 187. Valves open at (with tolerance for tappet clearance indicated) 0° T.D.C.
- 188. Valves close at (with tolerance for tappet clearance indicated) 40° A.B.D.C.
- 189. Air filter, type

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 10,2 mm 0,40 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) 1,44 mm inches
- 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) 0° A.T.D.C.

CARBURETION (photograph N)

- 210. Number of carburetors fitted 2
 - 211. Type HORIZONTAL
 - 212. Make SU
 - 213. Model HS-6
 - 214. Number of mixture passages per carburettor 1
 - 215. Flange hole diameter of exit port (s) of carburettor 44,5 mm 1 3/4 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



Make VOLVO

Model 142 S

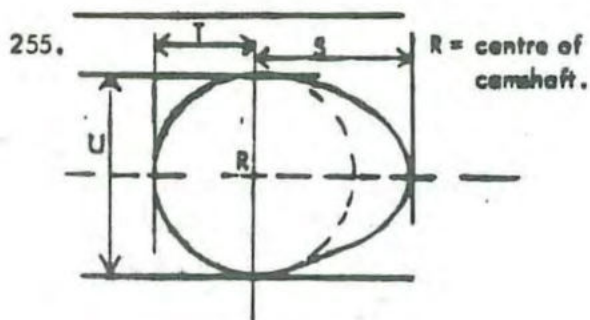
F.I.A. Rec.No

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 DRIVEN
238. Voltage of generator 12 volts
239. Battery, number 1
240. Location ENGINE COMPARTMENT, LEFT FRONT
241. Voltage of battery 12 volts

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

250. Max. engine output 118 (type of horsepower SAE) at 5.800 rpm
251. Maximum rpm 5.800 output at that figure 118 SAE
252. Maximum torque 17,0 KGmt SAE at 3.500 rpm
253. Maximum speed of the car km/hour miles/hour



<u>Inlet cam</u>			
S = 21,3	mm	0,839	inches
T = 14,6	mm	0,575	inches
U = 29,418	mm	1,158	inches
<u>Exhaust cam</u>			
S = 21,3	mm	0,839	inches
T = 14,6	mm	0,575	inches
U = 29,418	mm	1,158	inches

Make VOLVO

Model 142 S

F.I.A. Rec.No

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 21,6cm in.

264. Method of operating clutch MECHANICAL

GEAR BOX (photograph H)

270. Manual type, make VOLVO M 40

Method of operation

271. No of gear-box ratios forward 4

272. Synchronized forward ratios 4

273. Location of gear-shift CENTRE FLOOR LEVEL

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			2,62:1	33:15		
2	1,99:1	28:20			1,67:1	28:20		
3	1,36:1	22:23			1,24:1	23:22		
4	1:1				1:1			
5								
6								
reverse	3,25:1	32:19			3,25:1	32:19		

278. Overdrive, type

279. Forward gears on which overdrive can be selected

280. Overdrive ratio

FINAL DRIVE

290. Type of final drive HYPGID

291. Type of differential RIGID AXLE

292. Type of limited slip differential (if fitted)

293. Final drive ratio 4,56:1 4,88:1

Number of teeth 41:9 39:8



Make VOLVO

Model 142 S

F.I.A. Rec.No

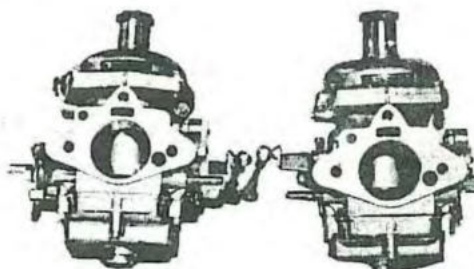
IMPORTANT - The conformity of the car with the following items of the present recognition form is to be disregarded during the scrutineering, when the vehicle has been entered in group 2 (Touring cars) or 3 (Grand Touring cars): 41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 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.

CONCERNS GROUP I ONLY

CARBURETTOR
ZENITH - STROMBERG
175 CD - 2 SE



Front 237437
Rear 237438

ELECTRICALLY OPERATED OVERDRIVE LAYCOCK TYPE "J" 254561
LIMITED SLIP DIFFERENTIAL SPICER/DANA "POWR-LOK" 384727
FINAL DRIVE RATIO 4,10:1 273126
NUMBER OF TEETH 41:10

Make VOLVO

Model 142 S

F.I.A. Rec. No.

CONCERNS GROUP II

CYLINDER HEAD



419894

INTERNATIONALE
AUTOMOBILE
Page 143



F. I. A. Recognition No. 5014/1/15
 FIA Identifieringskort Nr. 6R II

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. 1/4/70 List 70/1 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 VOLVO 142 S

Date when the first vehicles in this stage of development were manufactured Tillverkningsdatum för de första fordonen av denna vidareutveckling 1st of February, 1970

Serial No. of the type inaugurating this extension Nummerserie för denna utvecklade typ 142L341052900

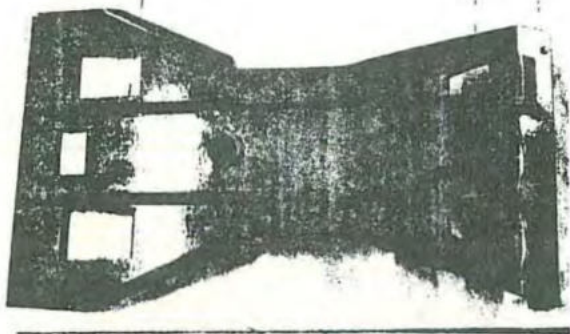
The Modellen 142 S recognized in Category, klassad i kategori Group I

by the F.I.A. on the av FIA den 1st of January, 1970 List Lista 70/1 as a normal som normal

development of the original vehicle type. utveckling av vagnstypen

Stamp and signature of the F.I.A. FIAs signatur och stämpel

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



Protection plate - front, steel Part No. 552109
 Skyddsplåt - främre, stål Detaljnr

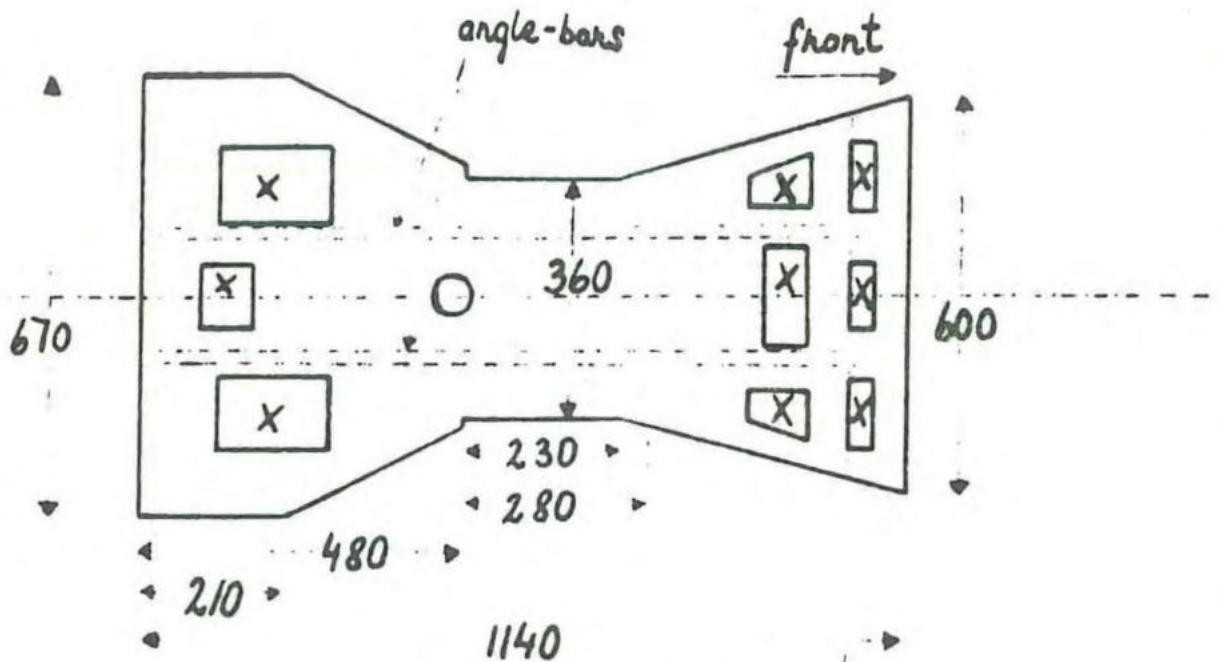
Same as above - of aluminium Part No. 552113
 Som ovan - av aluminium Detaljnr



Protection plate - rear, steel Part No. 552110
 Skyddsplåt - bakre, stål Detaljnr

Same as above - of aluminium Part No. 552114
 Som ovan - av aluminium Detaljnr

PROTECTION PLATE, FRONT VOLVO 142 S



X = Holes cut out to reduce weight.



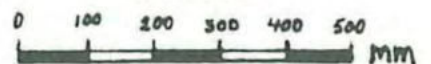
Two angle-bars - 25x25x4mm - welded alongside bottom of protection plate.

Material: 4mm steel-plate.

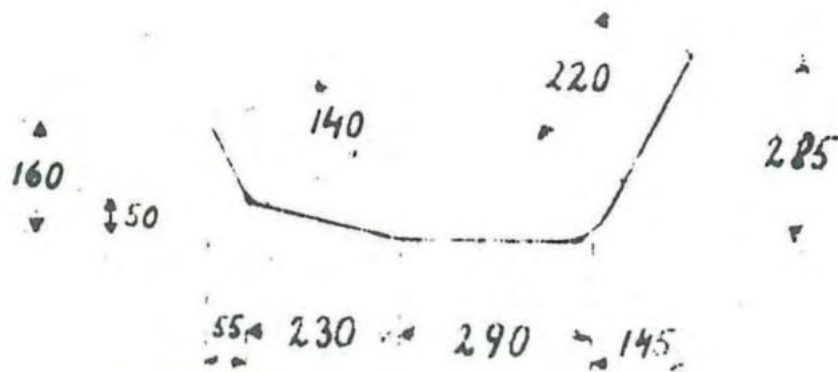
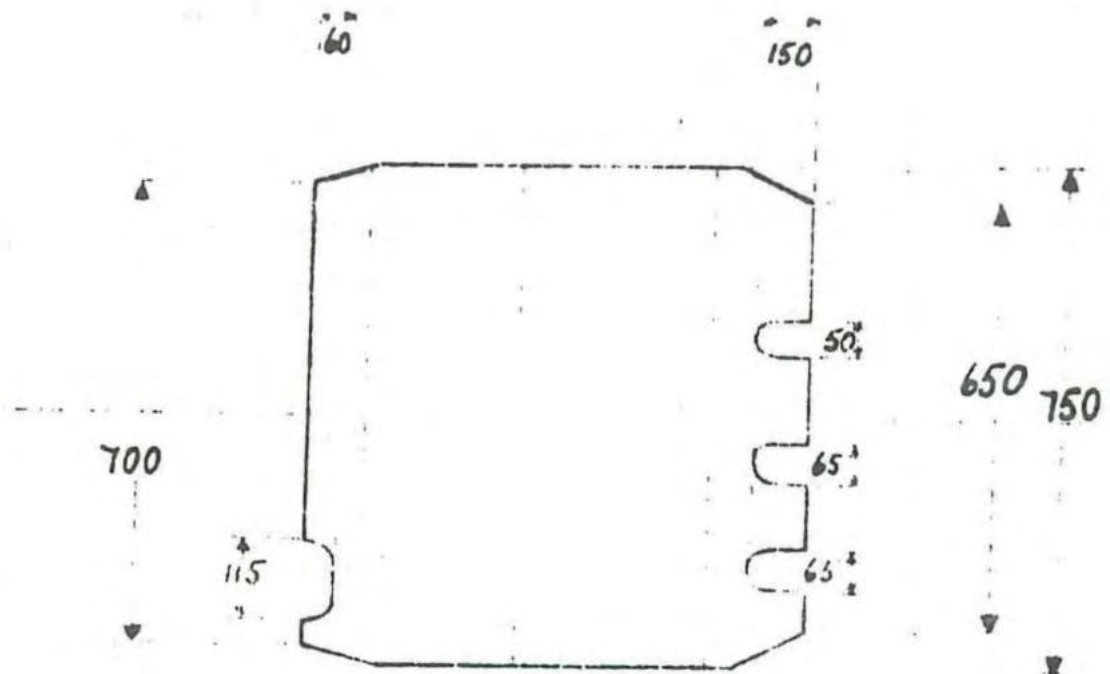
Weight: 26 1/2 kilos.

58.3 lbs.

Scale: 1:10



PROTECTION PLATE, REAR VOLVO 142 S

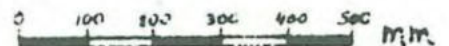


Material: 4 mm steel-plate.

Weight: 26 kilos.

57.2 lbs.

Scale: 1:10



Form of Recognition (Normal development of original vehicle type)

Identifieringskort (Normal utveckling av vagnstypen)

No. Nr	Make Märke	VOLVO	Type Typ	VOLVO 142 S
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Photographic documentation
Fotografier

Front axle cross member
Framaxelbalk

Part No. 552130
Detailjnr

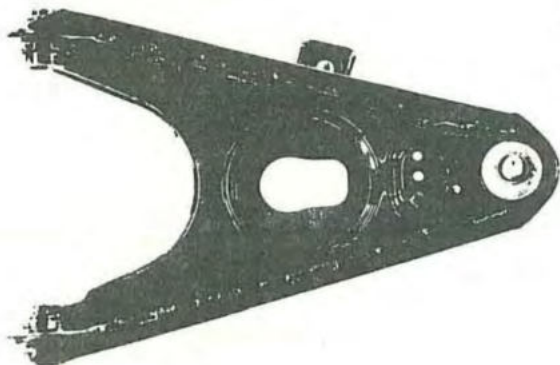


Lower wishbone - LEFT
Nedre länkarm - VÄNSTER

Part No. 552131
Detailjnr

Same as above - RIGHT
Som ovan - HÖGER

Part No. 552132
Detailjnr



Stockholm den

19

KUNGL AUTOMOBIL KLUBBEN

Stockholm den 19
KUNGL AUTOMOBIL KLUBBEN



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

No. Nr Make Märke Type Typ VOLVO VOLVO 142 S

Photographic documentation
Fotografier



Frame for fuel tank Part No. 552221
Mellanläggsram för bränsletank Detaljnr



Instrument panel Part No. 552701
Instrumentpanel Detaljnr



Stockholm den 19
KUNGL AUTOMOBIL KLUBBEN

Form of Recognition (Normal development of original vehicle type)

Identifieringskort (Normal utveckling av vagnstypen)

No. Nr	Make Märke	VOLVO	Type Typ	VOLVO 142 S
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Photographic documentation
Fotografier

- | | | |
|--|----------------------|--------|
| Safari kit
Safarisats | Part No.
Detaljnr | 552120 |
| Consisting of: Plate(s) for
Bestående av: Plåt(ar) för | | |
| 1. Side member - front LEFT
Sidobalk - främre VÄNSTER | Part No.
Detaljnr | 552121 |
| Same as above - RIGHT
Som ovan - HÖGER | Part No.
Detaljnr | 552122 |
| 2. Side member - rear LEFT
Sidobalk - främre VÄNSTER | Part No.
Detaljnr | 552123 |
| Same as above - rear RIGHT
Som ovan - bakre HÖGER | Part No.
Detaljnr | 552124 |
| 3. Inner wheel housing -
rear LEFT
Inre hjulhus - bakre VÄNSTER | Part No.
Detaljnr | 552125 |
| Same as above - rear RIGHT
Som ovan - bakre HÖGER | Part No.
Detaljnr | 552126 |
| 4. Upper attachment for rear
shockabsorbers (2)
Övre stötdämparfäste bak (2) | Part No.
Detaljnr | 552127 |

Stockholm den 27/1 1970

KUNGL AUTOMOBIL KLUBBEN

SVENSKA FOTOGRAFISKA SÄLLSKAPET

118 07 201 201 201 201 201 201