

FEDERATION INTERNATIONALE DE L'AUTOMOBILE **FTSA - Transfert en Gr.A**

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

Manufacturer **SAAB-SCANIA AKTIERQLAG** Cylinder capacity **1985** cm³ ... **121.1** in³
 Model..... **SAAB 99**.....
 Serial No of chassis **99722/6000001** Manufacturer..... **SAAB-SCANIA**.....
 engine **B20P01/2000001** Manufacturer..... **SAAB-SCANIA**.....
 Recognition is valid from... **1.11.73**..... List.....

The manufacturing of the model described in this recognition form was
 started on... **1/7**... **19.72** and the minimum production of... **5000**... identical cars
 in accordance with the specifications of this form was reached on... **2/12**...
19.72.

Photograph A, 3/4 view of car from front



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

Variants

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

Normal evolution of the type

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

Stamp and signature of the
 National Sporting Authority:

SVENSKA BILSPORTFÖRBUNDET

THE SWEDISH AUTOMOBILE-SPORT ORGANIZATION

M. Mellor

Stamp and signature of the F.I.A.:

[Handwritten signature]

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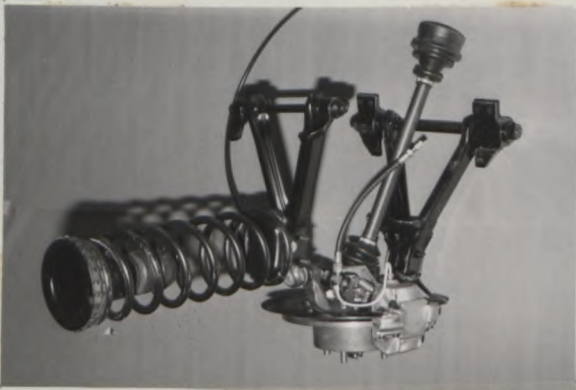
Photograph B



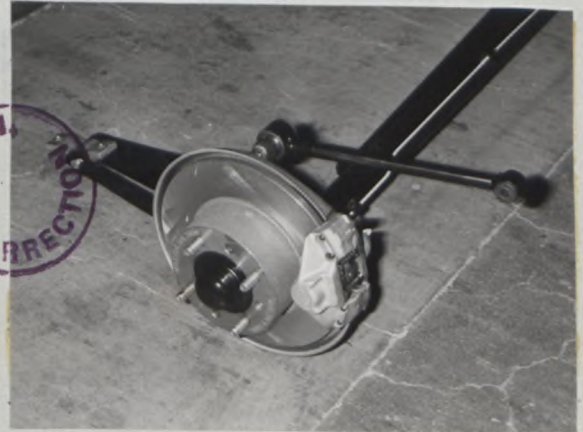
Photograph C



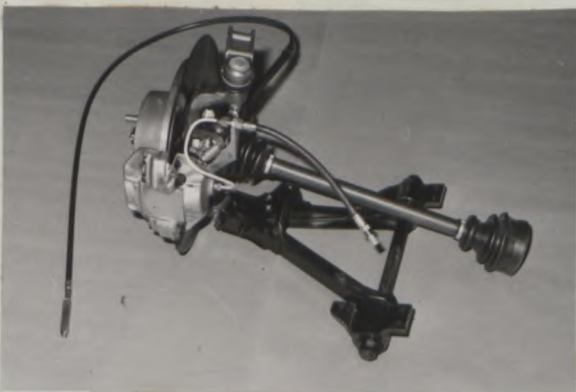
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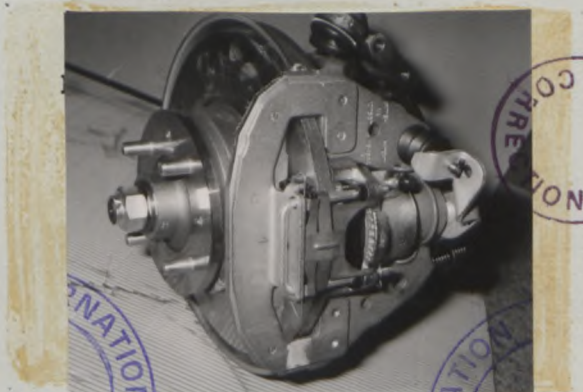
Photograph E



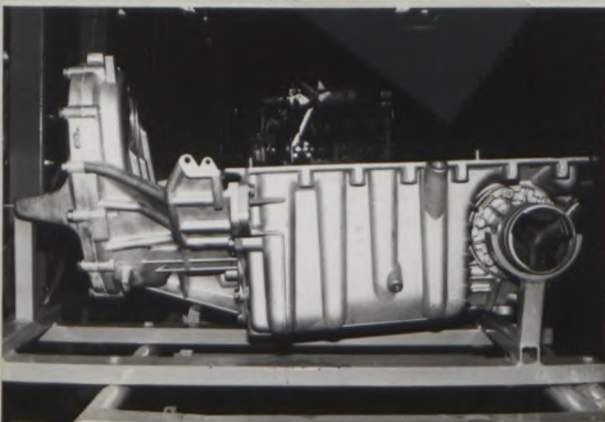
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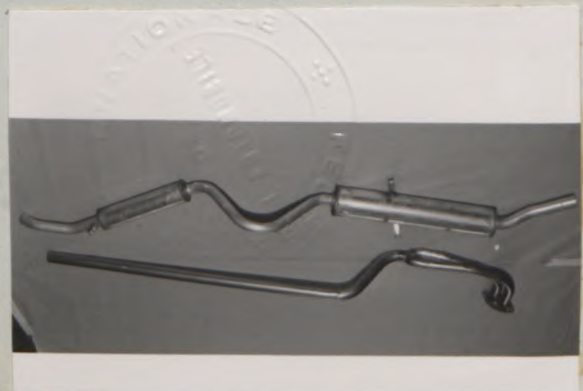
Photograph G



Photograph H



Photograph I



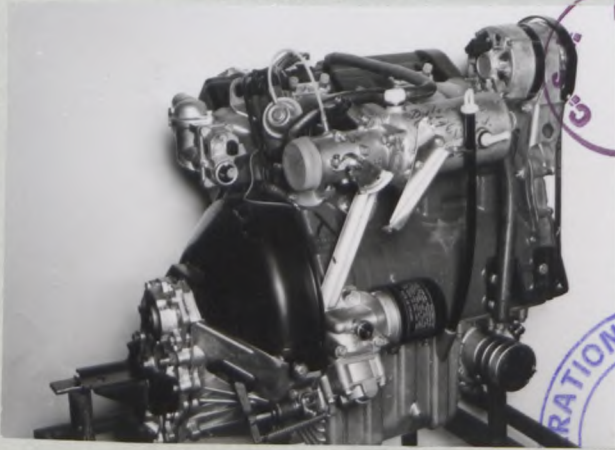
Make..... SAAB

Model..... SAAB 99

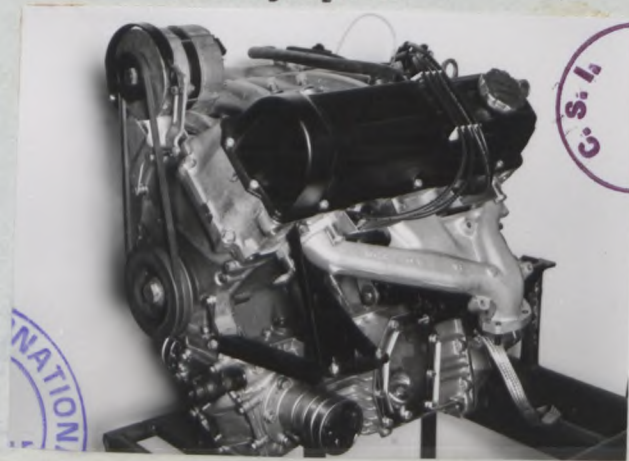
F.I.A. Rec. No. 5534.....

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Photograph J



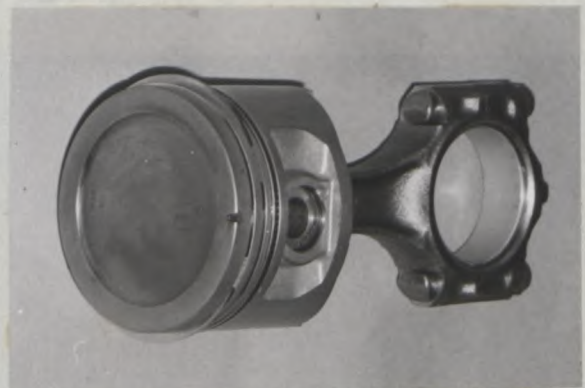
Photograph K



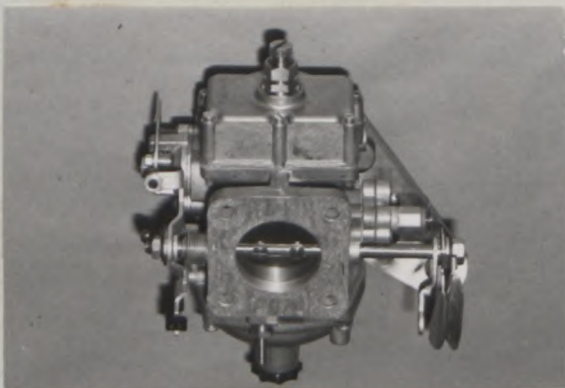
Photograph L



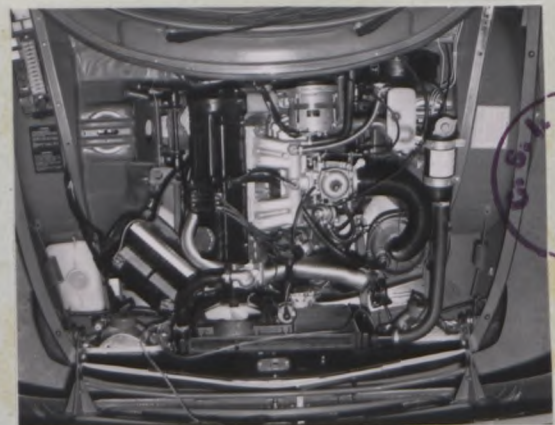
Photograph M



Photograph N



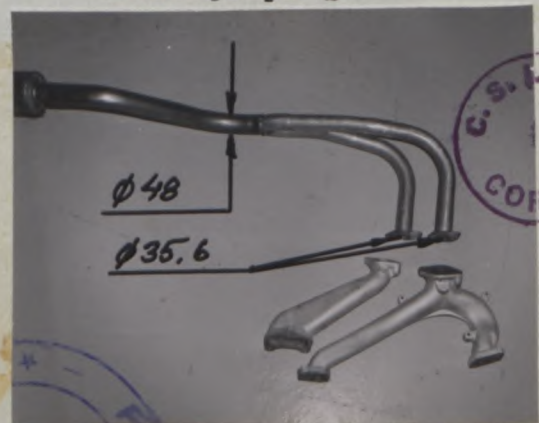
Photograph O



Photograph P

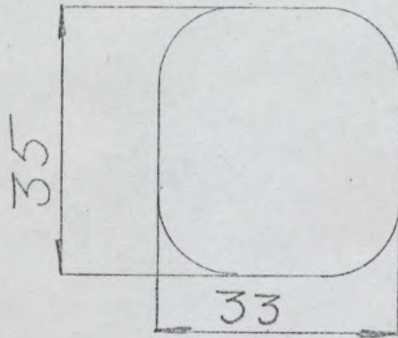


Photograph Q



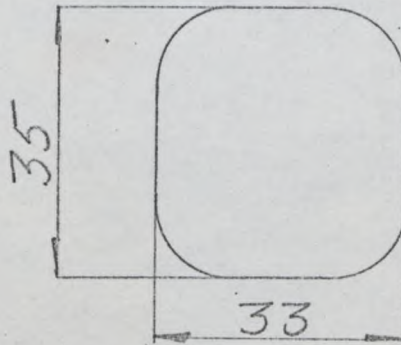
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Drawing inlet manifold ports, side of cylinder head. Indicate scale or dimensions and manufacturing tolerance.

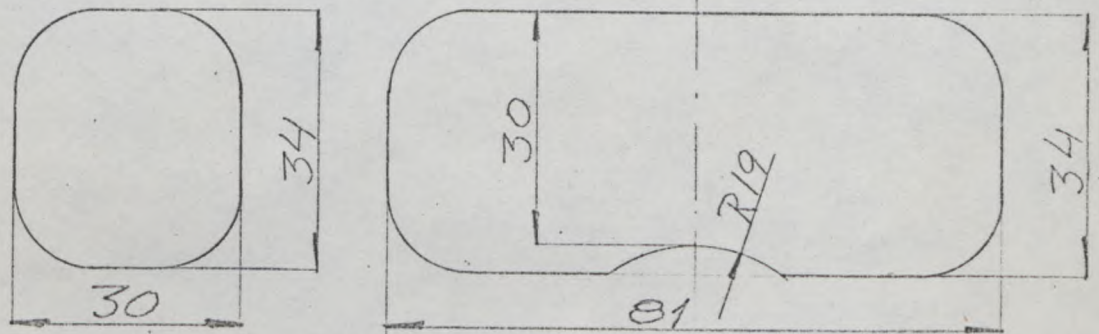


Tolerances as for unfinished castings.

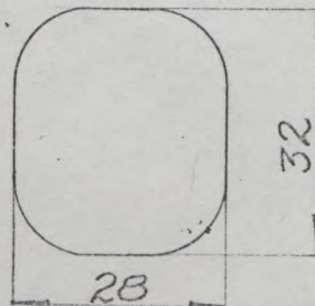
Drawing of entrance to inlet port of cylinder head. Indicate scale or dimensions and manufacturing tolerance.



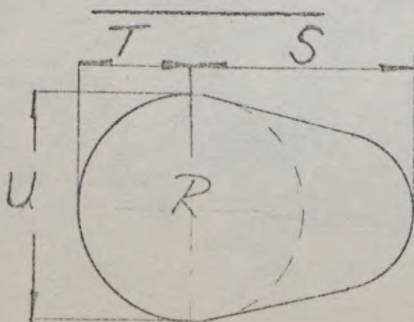
Drawing exhaust manifold ports, side of cylinder head. Indicate scale or dimensions and manufacturing tolerance.



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



R = center of camshaft



INLET CAM

S=30.332 mm	1.1942 inches
T=19.50 mm	0.7677 inches
U=39.0 mm	1.5354 inches

EXHAUST CAM

S=30.332 mm	1.1942 inches
T=19.3 mm	0.7599 inches
U=38.6 mm	1.5196 inches



IMPORTANT - the underlined items must be stated in two measuring systems, one of which must be the metric system. See conversion table hereafter.

CAPACITIES AND DIMENSIONS



- 1. Wheelbase 2473 mm 97.4 inches
- 2. Front track 1400 mm 55.1 inches X
- 3. Rear track 1420 mm 55.9 inches X
- 4. Overall length of the car 442 cm inches
- 5. Overall width of the car 169 cm inches
- 6. Overall height of the car 144 cm inches
- 7. Capacity of fuel tank (reserve included) 55 ltrs
14.5 Gallon US Gallon Imp.
- 8. Seating capacity 5
- 9. Weight, total weight of the car with normal equipment, water, oil and spare wheel but without fuel nor repair tools:
1010 kg 2227 lbs cwt
- 10. Overall width through the axle of the wheels cm inches
 - Front 165 cm inches
 - Rear 169 cm inches

X 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

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CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction: separate/unitary construction
- 21. Unitary construction, material(s) Steel sheet
Separate construction
- 22. Material(s) of chassis
- 23. Material(s) of coachwork Steel sheet
- 24. Number of doors 2 Material(s) Steel sheet
- 25. Material(s) of bonnet Steel sheet
- 26. Material(s) of boot lid Steel sheet
- 27. Material(s) of rear window Glass
- 28. Material(s) of windscreen Laminated glass
- 29. Material(s) of front-door windows Glass
- 30. Material(s) of rear-door windows (Glass)
- 31. Sliding system of door windows Wheel and lever mechanism
- 32. Material(s) of rear-quarter light Glass

ACCESSORIES AND UPHOLSTERY

- 38. Interior heating: yes - no
- 39. Air-conditioning: yes - no
- 40. Ventilation: yes - no
- 41. Front seats, type of upholstery Cloth and plastic
- 42. Weight of front seat(s), complete with supports and rails, out of the car: 15 kg lbs
- 43. Rear seats, type of upholstery Cloth and plastic
- 44. Front bumper, material(s) Alu, rubber, plastic Weight 12 kg lbs
- 45. Rear bumper, material(s) Alu, rubber, plastic Weight 11 kg lbs

WHEELS

- 50. Type Disc
- 51. Weight (per wheel, without tyre) 9 kg lbs
- 52. Method of attachment Bolt and nut
- 53. Rim diameter 381 mm 15 inches
- 54. Rim width 127 mm 5 inches

STEERING

- 60. Type Rack and pinion
- 61. Servo-assistance: yes - no
- 62. Number of turns of steering wheel from lock to lock 4.1
- 63. In case of servo-assistance



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SUSPENSION

- 70. Front suspension (photograph D), type independent
- 71. Type of spring Coil spring
- 72. Stabiliser (if fitted)
- 73. Number of shockabsorbers 2
- 74. Type telescopic
- 78. Rear suspension (photograph E), type rigid axle with trailing arms
- 79. Type of spring Coil spring
- 80. Stabiliser (if fitted) Cross bar
- 81. Number of shockabsorbers 2
- 82. Type telescopic

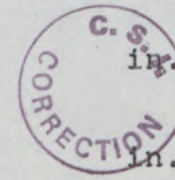
BRAKES (Photographs F and G)

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

FRONT

REAR

	FRONT		REAR	
93. Number of cylinders per wheel	2		2	
94. Bore of wheel cylinder(s)	54 mm	in.	30 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	280 mm	in.	270 mm	in.
101. Thickness of disc	12.8 mm	in.	10.5 mm	in.
102. Length of brake linings	76 mm	in.	56.5 mm	in.
103. Width of brake linings	52 mm	in.	38 mm	in.
104. Number of pads per brake	2		2	
105. Total area per brake	71600 mm ²	sq.in.	53250 mm ²	sq.in.



SAAB
Make.....

SAAB 99
Model.....

F.I.A. Rec.No. 5334.....

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ENGINE (Photographs J and K)

130. Cycle 4
131. Number of cylinders 4
132. Cylinder arrangement in line
133. Bore 90.0 mm 3.54 in.
134. Stroke 78 mm 3.07 in.
135. Capacity per cylinder 496 cm³ 30.3 cu.in.
136. Total cylinder capacity 1985 cm³ 121.1 cu.in.
137. Material(s) of cylinder block Cast iron
138. Material(s) of sleeves (if fitted) (Cast iron)
139. Cylinder head, material(s) Aluminium Number fitted 1
140. Number of inlet ports 4
141. Number of exhaust ports 4
142. Compression ratio 9.25
143. a) Volume of one combustion chamber 60-63 cm³ cu.in.
b) Volume of one combustion space in the cylinder head 48.5 cm³ cu.in.
c) Thickness of head gasket when compressed 1.2 mm in.
144. Piston, material Aluminium
145. Number of rings 3
146. Distance from gudgeon pin centre line to highest point of piston crown 40 mm in.
147. Crankshaft: moulded/stamped
Material: Steel
148. Type of crankshaft: integral/
/cast with balance weights
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 3.5 ltrs pts quarts US
153. Oil cooler: yes/no
154. Method of engine cooling Water cooled
155. Capacity of cooling system 9.5 ltrs pts quarts US
156. Cooling fan (if fitted), dia 28 cm in.
157. Number of blades of cooling fan 6
Bearings
158. Crankshaft main, type shell dia. 58 mm in.
159. Connecting rod, big end, type shell dia. 52 mm in.
Weights
160. Flywheel (clean) 9.1 kgs lbs
161. Flywheel with clutch (all turning parts) 14.9 kgs lbs
162. Crankshaft 16.0 kgs lbs
163. Connecting rod with bearing cap, bolts and bearings 0.81 kgs lbs
164. Piston with gudgeon-pin and piston-rings 0.71 kgs lbs



Make..... SAAB

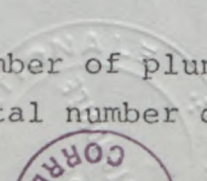
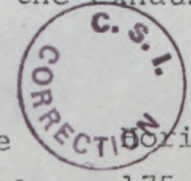
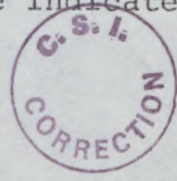
Model..... SAAB 99

F.I.A. Rec.No.. 5534...

FOUR STROKE ENGINES

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- 170. Number of camshafts 1
- 171. Location Overhead
- 172. Type of camshaft drive Chain
- 173. Type of valve operation Cam to tappet
- INLET (see page 4) X
- 180. Material(s) of inlet manifold Aluminium
- 181. Diameter of valves 42 mm 1.65 inches
- 182. Max. valve lift 10.83 mm 0.426 in.
- 183. Number of valve springs 4
- 184. Type of spring Coil
- 185. Number of valves/cyl. 1
- 186. Tappet clearance for checking timing (cold) 0.13-0.20 mm inches
- 187. Valves open at (with tolerance for tappet clearance indicated) 48° BTDC
- 188. Valves close at (with tolerance for tappet clearance indicated) 92° ABDC
- 189. Air filter, type Dry paper
- EXHAUST (see page 4)
- 195. Material(s) of exhaust manifold Cast iron
- 196. Diameter of valves 35.5 mm 1.40 inches
- 197. Max. valve lift 11.03 mm 0.434 in.
- 198. Number of valve springs 4
- 199. Type of spring Coil
- 200. Number of valves/cyl. 1
- 201. Tappet clearance for checking timing (cold) 0.33-0.40 mm inches
- 202. Valves open at (with tolerance for tappet clearance indicated) 92° BBDC
- 203. Valves close at (with tolerance for tappet clearance indicated) 48° ATDC
- 204. Dimensions of the exhaust port at the exit of the exhaust manifold
- Diameter 38 mm inches
- CARBURETION (photograph N)
- 210. Number of carburettors fitted 1
- 211. Type Horizontal
- 212. Make Zenith-Stromberg
- 213. Model 175 CD-25
- 214. Number of mixture passages per carburettor 1
- 215. Flange hole diameter of exit port(s) of carburettor 44.5 mm inches
- 216. Minimum diameter of venturi/minimum diameter with piston at max. height 32 mm 1 1/4 inches
- INJECTION (if fitted)
- 220. Make of pump Bosch
- 221. Number of plungers
- 222. Model or type of pump Roll cell Type
- 223. Total number of injectors 4
- 224. Location of injectors Inlet manifold
- 225. Minimum diameter of inlet pipe 55 mm inches



X For additional information concerning two-stroke engine and super-charged engines see page 13.

Make..... SAAB

Model..... SAAB 99

F.I.A. Rec.No... 5534...

ENGINE ACCESSORIES

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- 230. Fuel pump: mechanical and/or electric 231. Number fitted 1
- 232. Type of ignition system Coil and distributor 233. Number of distributors 1
- 234. Number of ignition coils 1 235. Number of spark plugs per cylinder 1
- 236. Generator, type: dynamo/alternator. - Number fitted 1
- 237. Method of drive Belt
- 238. Voltage of generator 12 (14) volts 239. Battery, number fitted 1
- 240. Location Engine compartment
- 241. Voltage of battery 12 volts

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

- 250. Max. engine output ~~118~~ HP (type of horsepower: DIN) at 5500 rpm
- 251. Max. rpm ~~6000~~ output at that figure 93.5
- 252. Max. torque ~~17~~ kpm at 3700 rpm
- 253. Max. speed of the car ~~174~~ km/hour miles/hour



Make... SAAB

Model... SAAB 99

F.I.A. Rec.No... 5534

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DRIVE TRAIN

Clutch

- 260. Type of clutch Dry, diaphragm spring
- 261. Number of plates 1
- 262. Dia. of clutch plates 21.6 cm inches
- 263. Dia. of linings, inside 14.6 cm inches outside 20.4 cm in
- 264. Method of operating clutch Hydraulic

Gear Box (photograph H)

- 270. Manual type, make SAAB-SCANIA
- 271. Number of gear box ratios forward 4
- 272. Synchronized forward ratios 4
- 273. Location of gear shift Floor
- 274. Automatic, make Borg Warner type 35
- 275. Number of forward ratios 3
- 276. Location of gear shift Floor

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	No teeth	Ratio	No teeth	Ratio	No teeth	Ratio	No teeth
1	3.44	$\frac{33}{16} \cdot \frac{30}{16}$	2.39		2.20	$\frac{27}{23} \cdot \frac{30}{16}$		
2	2.07	$\frac{33}{16} \cdot \frac{26}{23}$	1.45		1.53	$\frac{27}{23} \cdot \frac{26}{23}$		
3	1.39	$\frac{33}{18} \cdot \frac{22}{29}$	1		1.22	$\frac{27}{23} \cdot \frac{25}{24}$		
4	1				1			
5								
6								
reverse	3.78	$\frac{33}{18} \cdot \frac{33}{16}$	2.09		2.42	$\frac{27}{23} \cdot \frac{33}{16}$		

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

Final Drive

- 290. Type of final drive Spiral bevel
- 291. Type of differential Differential bevel gear
- 292. Type of limited slip differential (if fitted)
- 293. Final drive ratio 3.89 5.17 3.82^{x)}
- Number of teeth 35/9 31/6 42/11
- Primary drive ratio 1 1.05 0.97^{x)} 1.09^{x)}
- Number of teeth 20/20 20/19 38/39 38/35

x) Only automatic gear box

SAAB
Make.....

SAAB 99
Model.....

F.I.A. Rec.No. 5534...

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Combustion chamber (see art. 143)

Reboring dimensions:

Cylinder dimension 90.32 mm

Piston dimension 90.28 mm

Cylinder volume at 0.3 mm reboring = 1998 cm³

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

62. Number of turns of steering wheel from lock to lock 3 1/2 (8915480)

Oil cooler (8388811)

277. Manual gear box:	Ratio	No. of teeth
(4 speed)	1 3.24	$\frac{33}{18} \cdot \frac{30}{17}$
(8702602)	R 3.67	$\frac{33}{18} \cdot \frac{34}{17}$

293. Final drive ratio 4.22 (8780116) Primary drive ratio 0.95 (8700833)
Number of teeth 38/9 No. of teeth 19/20



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FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer SAAB-SCANIA AKTIEBOLAG Model SAAB 99
 Serial No. inaugurating this extension Chassis 99722/6000001
 Manufacturing date of the first vehicle constructed with the modifications Engine B/BE20P01/2000001
 Commercial denomination of modified model SAAB 99

This extension of recognition is considered:

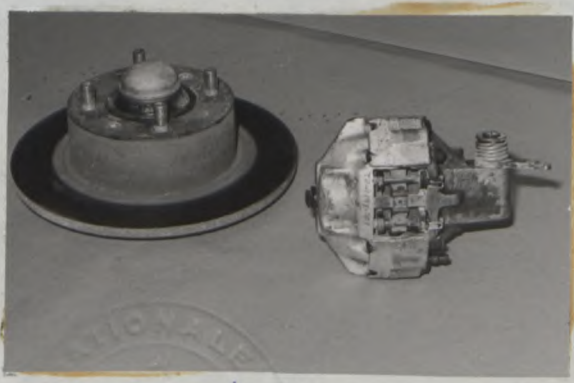
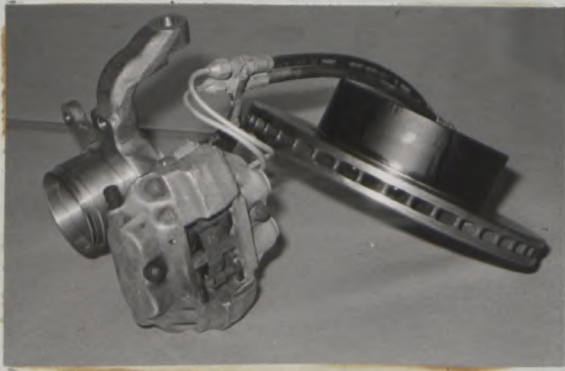
~~variation - normal~~
~~development of original~~
~~vehicle type~~
~~XXXXXX~~

Recognition is valid from **1 11 73**

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

Description of modifications: VALID IN GROUP 2 ONLY

	Front	Rear
Brakes Teves type	2 L4 34	LC ₁ 33W
93. Number of cylinders per wheel	4	2
94. Bore of wheel cylinders	34 mm	33 mm
100. Outside diameter (ventilated disc)	270 mm	-
101. Thickness of disc	22 mm	-
102. Length of brake linings	77 mm	56 mm
103. Width of brake linings	43 mm	38 mm
104. Number of pads per shoe	2	2
105. Total area per brake	59800 mm ²	54700 mm ²
Pressure limiting valve Teves type BR 18		



Signature and stamp of the National Sporting Authority:

SVENSKA BILSPORTFÖRBUNDET
 THE SWEDISH AUTOMOBILE-SPORT FEDERATION

M. Melsker

Signature and stamp of the F.I.A.:

[Signature]

5534

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

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Manufacturer SAAB-SCANIA AKTIEBOLAG	Model SAAB 99
Serial No. inaugurating this extension	Chassis 99722/6000001
Manufacturing date of the first vehicle constructed with the modifications	Engine B/BE20P01/2000001
Commercial denomination of modified model	1.1.1972
	SAAB 99

This extension of recognition is considered:

variation - normal
development of original
vehicle type
xxxxxxxxxx

Recognition is valid from 1 1173

List

Description of modifications:

4-DOOR COACH WORK



Signature and stamp of the National Sporting Authority:

Signature and stamp of the F.I.A.:
[Handwritten signature]
[Faded circular stamp]

COMMISSION SPORTIVE
01294 08.5.71
INTERNATIONAL

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FEDERATION INTERNATIONALE DE L'AUTOMOBILE

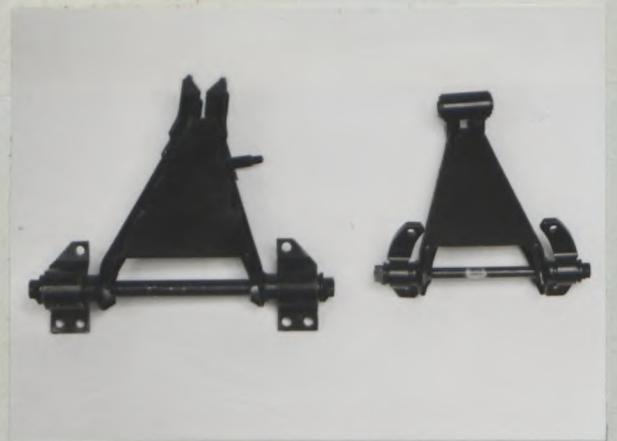
Form of recognition (extension) in accordance with
Appendix J to the International Sporting Code.

Manufacturer SAAB-SCANIA AKTIEBOLAG Model SAAB 99
 Serial No. inaugurating this extension Chassis 99722/6000001
 Manufacturing date of the first vehicle constructed with the modifications Engine B/BE20P01/2000001
 Commercial denomination of modified model SAAB 99
 This extension of recognition is considered: variation - normal
~~development of original~~
~~vehicle type~~
 Recognition is valid from 1.7.74 List

Description of modifications: VALID FOR GROUP 2 ONLY

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

- ~~Strengthening kit No 11621~~
- Strengthened upper wishbone No 15230 and 15248
- Strengthened lower wishbone No 15255 and 15263



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

Signature and stamp of the National Sporting Authority:

Signature and stamp of the F.I.A.:

SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE SPORT FEDERATION

[Handwritten signature]

[Handwritten signature]
F.I.A. stamp

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer SAAB-SCANIA AKTIEBOLAG Model SAAB 99
 Serial No. inaugurating this extension Chassis
 Manufacturing date of the first vehicle constructed with the modifications Engine 1.8.1975
 Commercial denomination of modified model SAAB 99 EMS
 This extension of recognition is considered: variation - normal development of original vehicle type
 Recognition is valid from 1.3.77 List

Description of modifications:

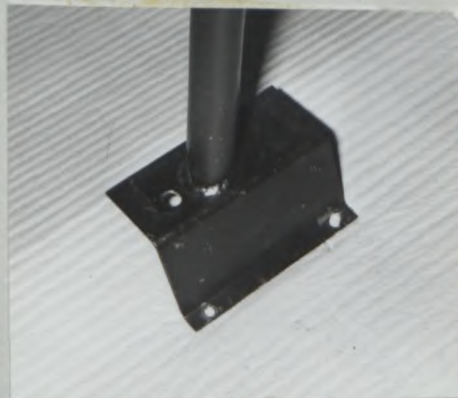
STEERING

62. Number of turns of steering wheel from lock to lock 3,43



ROLL BAR ATTACHMENT

See photo



Signature and stamp of the National Sporting Authority:

SVENSKA BILSPORTFÖRBUNDET THE SWEDISH AUTOMOBILE-SPORT FEDERATION

Handwritten signature

Signature and stamp of the F.I.A.:



FISA - Transfert en Gr.A

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer	SAAB-SCANIA AB	Model	SAAB 99
		Chassis	
Serial No. inaugurating this extension		Engine	
Manufacturing date of the first vehicle constructed with the modifications			
Commercial denomination of modified model		SAAB 99	
This extension of recognition is considered:		variation - xxxxx	
		development of original	
		vehicle type	
		xxxxxxx	
Recognition is valid from		List	

We hereby certify that the car structure including roll bar (roll cage), specified in our recognition form, complies with the standards required by FIA for open cars, Art. 253 of Appendix J.

Trollhättan, September 25, 1978

SAAB-SCANIA AB
 Development and Production Sector
 Engineering Department

Henrik Gustavsson

Henrik Gustavsson
 Technical Director



FISA - Transfert en Gr.A

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

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

Manufacturer	SAAB-SCANIA AB	Model	SAAB 99
		Chassis	
Serial No. inaugurating this extension		Engine	
Manufacturing date of the first vehicle constructed with the modifications			
Commercial denomination of modified model		SAAB 99	
This extension of recognition is considered:		variation - normal	
		development of original	
		vehicle type	
Recognition is valid from	-1.OCT.1978	List	

Description of modifications:

ROLL CAGE SAAB NO 18028

Material: Britich Standard 1474 HE 30 (AlSiMgMn)

Tensile strength: 31 kp/mm²

Diameter: 38 mm

Wall thickness: 3.25 mm

Weight: 12 kg



Signature and stamp of the National Sporting Authority:

SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

[Handwritten signature]

Signature and stamp of the F.I.A.:



[Handwritten signature]