F.I.A. Recognition No 5.2.0.8.... 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
Serial No of chassis . 1.	Manufacturer A.B. Volvo Manufacturer A.B. Volvo
The manufacturing of the model described	in this recognition form was started on 18/5.1967.
tions of this form was reached on	identical cars, in accordance with the specifica -

Photograph A, 3/4 view of car from front



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

Variants	Normal evolution of the type
on	19. rec. No List on 19. rec. No List
on	19 rec. NoList on19 rec. NoList
on	19 rec. No List on 19 rec. No List
on	19 rec. NoList on 19 rec. NoList
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.

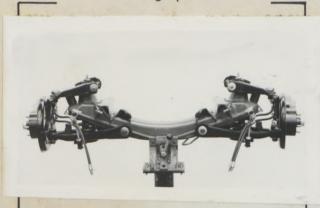
Photograph B

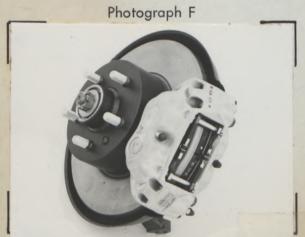


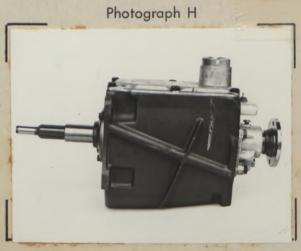
Photograph D



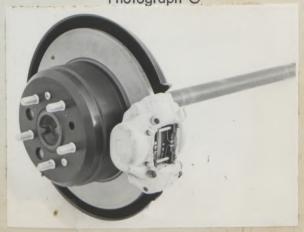
Photograph E



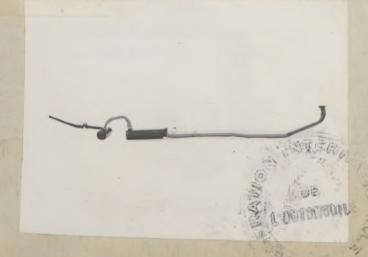




Photograph G.



Photograph I

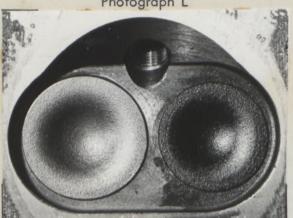


Page 2

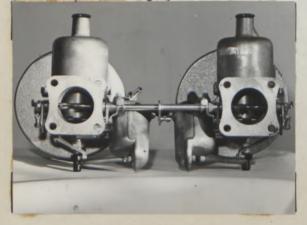
Photograph J



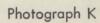
Photograph L



Photograph N



Photograph P





Photograph M





Photograph Q

inlet manifold



fold



Make Volvo

Model 142 5

F.I.A. Rec. No 5208

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



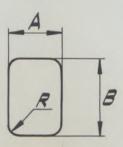
Ø 36 ± 0,31

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



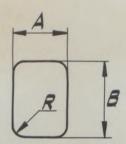
Ø 36 ± 0,31

Drawing exhaust
manifold ports,
side of cylinderhead. 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.



 $A = 25 \pm 0.8$ $B = 38 \pm 0.8$ $R = 4 \pm 0.8$



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

CAPACITIES AND DIMENSIONS

1.	Wheelbase	2600	mm	102 1/2 inches	
2.	Front track	1350	mm	53 1/8 inches	*
3.	Rear track	1350	mm	53 1/8 inches	*
4.	Overall length of	the car	46	4 cm	inches
5.	Overall width of	the car	174	4 cm	inches
6.	Overall height of	the car	146	cm	inches
7.	Capacity of fuel t	ank (reserve inc	luded) Gallon US	/3	58 Itrs Gallon Imp.
		-			

8. Seating capacity 5

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

1073 kg 2366 lbs 21,1 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	O.	0.9464 Trs
1	foot/pied	-	30.4794 cm			0.568 Itrs
1	square inch/pouce carré	-	6.452 cm2			4.546 Itrs
	cubic inch/pouce cube	-	16.387 cm3			3.785 Itrs
1	pound/livre (Ib)	-	453.593 gr.	1 hundred weight (cwt) -	-	50.802 kg

CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction: *** unitary construction
- 21. Unitary construction, material (s) 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 -
- 39. Air-conditioning: no
- 40. Ventilation : yes -
- 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

Ibc

- 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

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 /14 mm 41/2 inches

STEERING

- 60. Type CAM AND ROLLER
- 61. Servo-assistance:
- 62. Number of turns of steering wheel from lock to lock 4,1
- 63. In case of servo-assistance



lbs

SUSPENSION

70. Front suspension (photogr. D), type /ND/VIDUAL

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 CO/L

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

	Number of cylinders per wheel Bore of wheel cylinder (s)	4×36	FRONT 4	in.	REAR 2 2×36 _{mm}	in.
96. 97. 98.	Drum brakes Inside diameter Length of brake linings Width of brake linings Number of shoes per brake		mm mm mm	in. in. in.	mm mm mm	in. in. in.
100.	Total area per brake Disc brakes Outside diameter Thickness of disc Length of brake linings	272 12,8 75	mm2 mm mm	in. in. in.	295 mm 9,6 mm 57 mm	in.
104.	Width of brake linings Number of pads per brake Total area per brake	50 2 7300	mm mm2	in.	42,5 mm 2 .4650mm2	in.

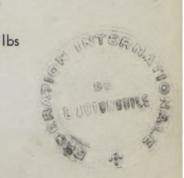
ENGINE (photographs J and K)

4-STROKE 130. Cycle 131. Number of cylinders 4 132. Cylinder arrangement /N L/NE 84,14 = 0,09 133. Bore mm 3.3/3 134. Stroke 80,0 ± 0,01 mm in. 135. Capacity per cylinder cm3 cu.in. 1778 136. Total cylinder-capacity cm3 cu.in. CAST IRON 137. Material (s) of cylinder block 138. Material (s) of sleeves (if fitted) 139. Cylinder-head, material (s) CAST IRON Number fitted 140. Number of inlet ports 141. Number of exhaust ports 10.0:1 142. Compression ratio 143. Volume of one combustion chamber 49,5 cm3 cu.in. 144. Piston, material LIGHT ALLOY 145. Number of rings 146. Distance from gudgeon pin centre line to highest point of piston crown 46 ± 0,1 mm inches 147. Crankshaft: moulded / stamped 148. Type of crankshaft: integral/.... 149. Number of crankshaft main bearings 5 150. Material of bearing cap CAST IRON 151. System of lubrication: 152. Capacity, lubricant 3,75 Itrs quarts US 153. Oil cooler: > no 154. Method of engine cooling WATER 155. Capacity of cooling system 8,6 ltrs pints quarts US 156. Cooling fan (if fitted), dia .33, 5 cm inches 157. Number of blades of cooling fan Bearings Dia. 63,45 mm COPPER-LEAD-INDIUM in. 158. Crankshaft main, type

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)/5,9 kg
162.	Crankshaft	16,7 kg	Ibs
163.	Connecting rod	0,680 kg	Ibs
164.	Piston with rings and	pin 0,588 kg	Ibs



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
 182. Max. valve lift

 40 mm
 1,58 inches
 0,40 in.
- 183. Number of valve springs /
- 184. Type of spring COIL
- 185. Number of valves per cylinder /
- 186. Tappet clearance for checking timing (cold) 1,44 mm inches 187. Valves open at (with tolerance for tappet clearance indicated) 0° 7. D.C.
- 188. Valves close at (with tolerance for tappet clearance indicated) 40° A, B, D, C.
- 189. Air filter, type PAPER

EXHAUST (see page 4)

- 195. Material (s) of exhaust manifold CAST IRON
- 196. <u>Diameter of valves</u>
 197. <u>Max. valve lift</u>

 35 mm

 1,38 inches
 10,2 mm

 0,40 in.
- 198. Number of valve springs
- 199. Type of spring CO/L
- 200. Number of valves per cylinder /
- 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) O° A. T. D. C.

CARBURETION (photograph N)

- 210. Number of carburettors fitted 2
- 211. Type HORIZONTAL
- 212. Make 50
- 213. Model H5-6
- 214. Number of mixture passages per carburettor /
- 215. Flange hole diameter of exit port (s) of carburettor#5mm in.
- 216. Minimum diameter of venturi/minimum diam. with piston at maximum height

nm inches

INJECTION (if fitted)

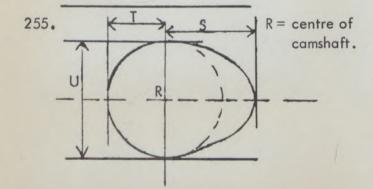
- 220. Make of pump
- 221. Number of plungers
- 222. Model or type of pump
- 223. Total number of injectors
- 224. Location of injectors
- 225. Minimum diameter of inlet pipe

mm

inches

ENGINE ACCESSORIES

230.	Fuel pump: mechanical and/or destrict
231.	No fitted/
232.	Type of ignition system CO/L
233.	No of distributors/
234.	No of ignition coils/
	No of spark plugs per cylinder /
236.	Generator, type : dynamo / alternates - number fitted /
	Method of drive BELT DRIVEN
238.	Voltage of generator12 volts
239.	Battery, number/
240.	LocationENGINE COMPARTMENT, LEFT FRONT
241.	Voltage of battery12 volts
	ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)
	Max. engine output 1/5 (type of horsepower: SAE) at 6000 rpm Maximum rpm 6000 output at that figure 1/5
	IF E KOM . GAT 1



252. Maximum torque 15,5 KGM et SAE at

253. Maximum speed of the car

	cam			
	21,3		0,83	inches
T =	14,6	mm		inches
U=	29,418	mm	- 1	inches
Exha	ust cam		,	
S =	21,3	mm	0,83	inches
T =	14,6	mm		inches
U=	29,418	mm		inches

4000

km/hour

rpm

miles/hour



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

in. outside 21,6 cm cm 264. Method of operating clutch MECHANICAL

in.

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 273. Location of gear-shift

CENTRE FLOOR LEVER

274. Automatic, make

type

275. No of forward ratios

276. Location of gear-shift

277.	Ratio Ma	nual No teeth	Autor	natic No teeth	Ratio	ernative mo	anual/a	utomatic 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 FOURT GEAR
- 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 4,1 AND 4,56 Number of teeth 41:10 41:9



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

CONCERNS GROUP II ONLY

EXHAUST MANIFOLD

METERING NEEDLE

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

POWER - LOK DISC TYPE	384498
, , , , , , , , , , , , , , , , , , , ,	204720

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	4/8737	

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
	1

SPRING, VACUUM PLUNGER, CARBURETTER 237242



419381 237241 IGNITION COIL SPARK PLUG W 280 T135 SPARK PLUG W 240 T1

239499 240571 238624

GROUP I 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

