

Manufacturers Reference No. for Application

Singer Vogue I



F.I.A. Recognition No.

1087

# ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

## Federation Internationale de l'Automobile.

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

Manufacturer..... ROOTES GROUP

Model..... SINGER VOGUE Year of Manufacture..... 1961

Serial No. of Chassis..... 7100001

Engine..... "

Type of Coachwork..... SALOON

Recognition is valid from..... 6<sup>th</sup> <sup>December</sup> 1961 In category..... Touring



Photograph to be affixed here  $\frac{3}{4}$  view of car from front right.



Stamp of F.I.A. to be affixed here.



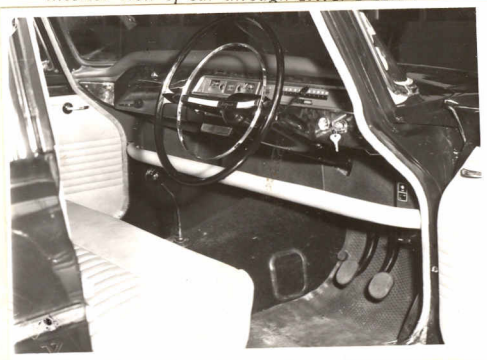
General description of car:

Photographs to be affixed below.

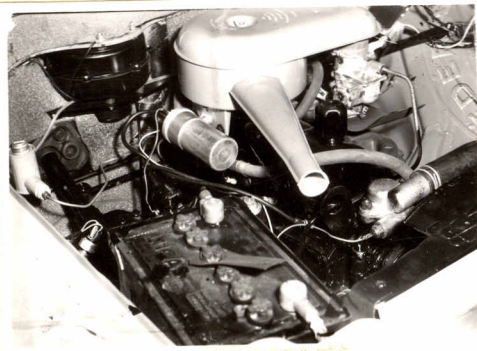
*3/4 view of car from rear left.*



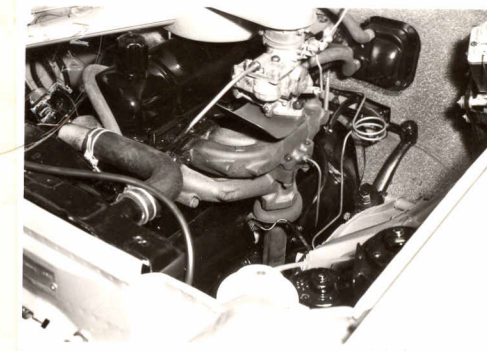
*Interior view of car through driver's door.*



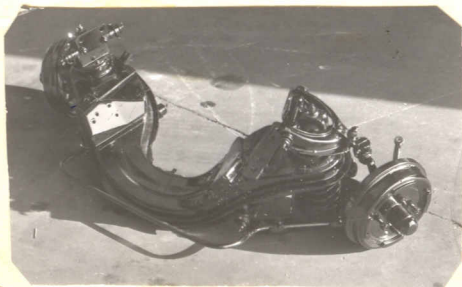
*Engine unit with accessories from right.*



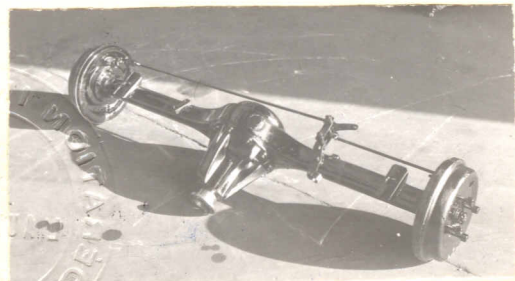
*Engine unit with accessories from left.*



*Front axle complete (without wheels).*



*Rear axle complete (without wheels).*



# ENGINE

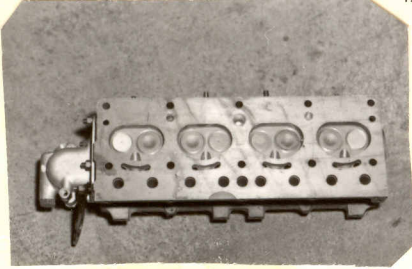
in line .....  
 No. of cylinders..... 4 ..... in V .....  
 opposed .....  
 Cycle..... 4 stroke ..... Firing order..... 1,3,4,2 .....  
 Capacity..... 1592 ..... c.c. Bore..... 81.5 ..... m.m. Stroke..... 76.2 ..... m.m.  
 Maximum rebore..... 82.25 ..... m.m. Resultant capacity..... 1620 ..... c.c.  
 Material of cylinder block..... Cast iron ..... Material of sleeves, if fitted..... - .....  
 Distance from crankshaft centre line to top face of block at centre line of cylinders..... 231.8 ..... m.m.  
 Material of cylinder head..... Cast iron ..... Volume of one combustion chamber..... 144/16 ..... c.c.  
 Compression ratio..... 8.3:1 .....  
 Material of piston..... 'Heplex' ..... No. of piston rings..... 3 .....  
 Distance from gudgeon pin centre line to highest point of piston crown..... 46.9 ..... m.m.  
 Bearings { Crankshaft main bearings: Type White metal lined Dia..... 57.13 ..... m.m.  
 Connecting rod big end: Type Lead indium lined Dia..... 50.82 ..... m.m.  
 Weights { Flywheel..... 9.87 ..... kg.  
 Crankshaft..... 15.42 ..... kg.  
 Connecting rod..... .71 ..... kg. with Bearing shells and small end.  
 Piston with rings..... .44 ..... kg.  
 Gudgeon pin..... .14 ..... kg.  
 No. of valves per cylinder..... 2 ..... Method of valve operation..... Pushrod .....  
 No. of camshafts..... 1 ..... Location of camshafts..... Cylinder block .....  
 Type of camshaft drive..... Chaindrive from crankshaft. .....  
 Diameter of valves: Inlet..... 36.45 ..... m.m. Exhaust..... 29.8 ..... m.m.  
 Diameter of port at valve seat: Inlet..... 33.3 ..... m.m. Exhaust..... 26.9 ..... m.m.  
 Tappet clearance for checking timing: Inlet..... .5 at valve tip ..... m.m. Exhaust..... .5 at valve tip ..... m.m.  
 Valves open: Inlet..... 14° B.T.D.C. ..... Exhaust..... 56° B.B.D.C. .....  
 Valves close: Inlet..... 52° A.B.D.C. ..... Exhaust..... 10° A.T.D.C. .....  
 Maximum valve lift: Inlet..... 8.13 ..... m.m. Exhaust..... 8.08 ..... m.m.  
 Degrees of crankshaft rotation from zero to—  
 Maximum lift: Inlet..... 148° ..... Exhaust..... 144° .....  
 $\frac{3}{4}$  Maximum lift: Inlet..... 96° ..... Exhaust..... 92° .....  
 Valve springs: Inlet Exhaust  
 Type..... Helical coil ..... Helical coil .....  
 No. per valve..... 2 ..... 2 .....  
 Carburettor: Type..... Downdraught ..... No. fitted..... 1 .....  
 (up or down draft, horizontal)  
 Make..... Solex ..... Model..... 32 P.B.I.S. .....  
 Flange hole diameter..... 32 ..... m.m. Choke diameter..... 25 ..... m.m.  
 Main jet identification No..... 117.5 .....

Air filter: Type Paper Element No. fitted 1

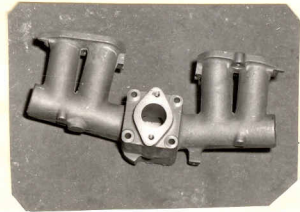
Inlet manifold:  
Diameter of flange hole at carburettor 33 m.m.

Diameter of flange hole at port 32 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



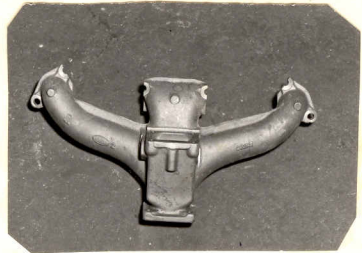
Exhaust manifold:  
Diameter of flange hole at port 27 m.m.

Diameter of flange hole at connection to silencer inlet pipe 45.7 m.m.

Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



### ENGINE ACCESSORIES

Make of fuel pump A.C. No. fitted 1

Method of operation Mechanical

Type of ignition system Coil coil or magneto

Make of ignition Lucas Model DM 2

Method of advance and retard Centrifugal and vacuum

Make of ignition coil Lucas Model HA 12

No. of ignition coils 1 Voltage 12

Make of dynamo Lucas Model C 401

Voltage of dynamo 12 Maximum output 25 amps.

Make of starter motor Lucas Model M 350

Battery: No. fitted 1 Voltage 12 Capacity 38 a.m.p. hour

Make SINGER Model VOGUE F.I.A. Recognition No. \_\_\_\_\_  
 Manufacturers Reference No. of Application \_\_\_\_\_

**TRANSMISSION**

Make of clutch Borg and Beck Type Single dry plate  
 Diameter of clutch plate 8.0 in No. of plates 1  
 Method of operating clutch Mechanical through hydraulic  
 Make of gearbox Rootes Type Constant  
 No. of gearbox ratios 4 forward and 1 reverse  
 Method of operating gearshift Manual  
 Location of gearshift Centre floor lever  
 Is overdrive fitted? Optional extra  
 Method of controlling overdrive, if fitted Electric switch on steering column

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.346	$\frac{29}{20} \times \frac{30}{13}$						
2.	2.141	$\frac{29}{20} \times \frac{31}{21}$						
3.	1.392	$\frac{29}{20} \times \frac{24}{25}$						
4.	1.0	Direct						
Rev. 5r	4.239	$\frac{29}{20} \times \frac{30}{13}$	$\times \frac{19}{15}$					

Type of final drive Hypoid  
 Type of differential Normal - 2 Pinions and side gears  
 Final drive ratio 4.22:1 Alternatives 4.44 with overdrive fitted  
 No. of teeth 9/38 9/40  
 Overdrive ratio, if fitted .803:1 (24.6%)

**WHEELS**

Type Pressed steel disc Weight 5.75 kg.  
 Method of attachment 4 - 16 in. UNF Bolts  
 Rim diameter 330.2 m.m. Rim width 114.3 m.m.  
 Tyre size: Front 5.90 x 13 Rear 5.90 x 13

**BRAKES**

Method of operation Hydraulic  
 Is servo assistance fitted? No  
 Type of servo, if fitted -  
 No. of hydraulic master cylinders 1 Bore 17.8 m.m.

	Front		Rear	
No. of wheel cylinders	2 per wheel		1 per wheel	
Bore of wheel cylinders	20.3	m.m.	19.1	m.m.
Inside diameter of brake drums	229	m.m.	229	m.m.
No. of shoes per brake	2		2	
Outside diameter of brake discs	-	m.m.	-	m.m.
No. of pads per brake	-		-	
Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)				

	Front		Rear	
Length	219	m.m.	219	m.m.
	219	m.m.	219	m.m.
Width	44.5	m.m.	44.5	m.m.
Total area per brake	19,500	m.m. <sup>2</sup>	19,500	m.m. <sup>2</sup>

### SUSPENSION

	Front		Rear	
Type	Independent		Live axle	
Type of spring	Coil		Semi elliptic leaf	
Is stabiliser fitted?	No		No	
Type of shock absorber	Hydraulic telescopic		Hydraulic telescopic	
No. of shock absorbers	2		2	

### STEERING

Type of steering gear	Burman recirculating ball	
Turning circle of car	10.97	m., approx.
No. of turns of steering wheel from lock to lock	3.2	

### CAPACITIES AND DIMENSIONS

Fuel tank	50	litres	Sump	3.9 Sump only 4.5 inc. filter	litres
Radiator & Engine	7	litres			
Overall length of car	420	cm.	Overall width of car	158	cm.
Overall height of car, unladen (with hood up, if appropriate)	148	cm.			
Distance from floor to top of windscreen:					
Highest point	104	cm.	Lowest point	101	cm.
Width of windscreen:					
Maximum width	129	cm.	Minimum width	119	cm.
*Interior width of car	129.5	cm.			
No. of seats	4/5				
Track: Front	131	cm.	Rear	123	cm.
Wheelbase	256.5	cm.	Ground clearance	165	m.m.

\*(To be measured at the immediate rear of the steering wheel, and the width quoted to be maintained in a vertical plane of not less than 25 cms.)

Overall weight with water, oil and spare wheel, but without fuel 1076 kgs.

**Additional information for cars fitted with two-cycle engines**

System of cylinder scavenging.....

Type of lubrication.....

**Size of inlet port:**

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.<sup>2</sup>

**Size of exhaust port:**

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.<sup>2</sup>

**Size of transfer port:**

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.<sup>2</sup>

**Size of piston port:**

Length measured around piston..... m.m.

Height..... m.m. Area..... m.m.<sup>2</sup>

Method of pre-compression.....

Bore and stroke of pre-compression cylinder, if fitted..... m.m.

Distance from top of cylinder block to lowest point of inlet port..... m.m.

Distance from top of cylinder block to highest point of exhaust port..... m.m.

Distance from top of cylinder block to highest point of transfer port..... m.m.

Drawing of cylinder ports.

**Supercharger, if fitted**

Make..... Model or Type No.....

Type of drive..... Ratio of drive.....

**Fuel injection, if fitted**

Make of pump..... Model or Type No.....

Make of injectors..... Model or Type No.....

Location of injectors.....

Optional equipment affecting preceding information:—

- ~~1. Petrol Tank Shield available.~~
- ~~2. Heavy Duty Suspension with Aeon Rubber Assistance available.~~
3. Long Range Fuel Tank available capacity 100 litres.
- ~~4. Oil Cooler available~~
5. Electrical Petrol Pump available.
6. Lightweight Competition Seats available.