

Manufacturers Reference No. for Application

ADO 159W/63



F.I.A. Recognition No.

1198

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 Wolseley Motors Limited

Model Wolseley Hornet MK II

Year of Manufacture 1963

Chassis W/A2S2

Serial No. of

Engine 9WR-U-H or 9WR-FAU-H

Type of Coachwork Saloon - 2 door

Recognition is valid from

9/5/63

In category

Touring



Phot. Night.



Stamp of F.I.A./R.A.C. to be
affixed here.

Form: R.F.I.A.

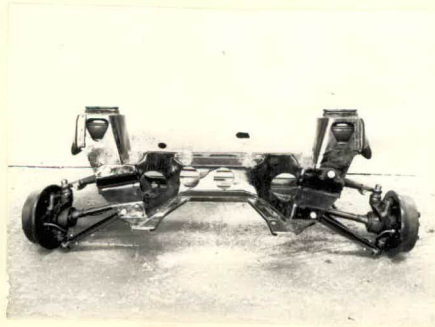
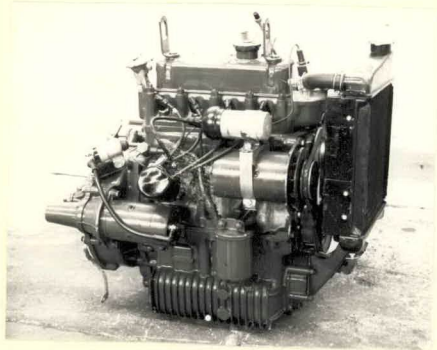
General description of car:

Specify here material/s of
chassis/body construction

2 door steel saloon of unitary construction powered by transversely mounted 4
cylinder OHV engine/transmission unit driving front wheels. All independent
suspension via rubber cone springs.



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ENGINE

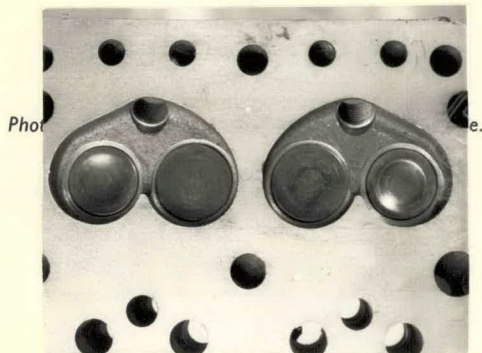
in line In line
 No. of cylinders 4 in V
 opposed
 Cycle Four stroke Firing order 1,3,4,2.
 Capacity 998 c.c. Bore 64.57/64.60 m.m. Stroke 76.20/76.33 m.m.
 Maximum rebore + .020" Resultant capacity 1016 c.c. (Max)
 Material of cylinder block Cast Iron Material of sleeves, if fitted.....
 Distance from crankshaft centre line to top face of block at centre line of cylinders 218.31/218.57 m.m.
 Material of cylinder head Cast Iron Volume of one combustion chamber 24.5 c.c.
 Compression ratio 8.3:1
 Material of piston Aluminium alloy No. of piston rings 4
 Distance from gudgeon pin centre line to highest point of piston crown 33.96/34.09 m.m.
 Bearings { Crankshaft main bearings: Type Copper Lead Dia. 44.46 m.m.
 Connecting rod big end: Type Copper Lead Dia. 41.28 m.m.
 Weights { Flywheel 6.69 kg.
 Crankshaft 9.5 kg.
 Connecting rod .68 kg.
 Piston with rings .18 kg.
 Gudgeon pin .057 kg.
 No. of valves per cylinder 2 Method of valve operation Push rod & rocker
 No. of camshafts 1 Location of camshafts In crankcase
 Type of camshaft drive Chain
 Diameter of valves: Inlet 27.76/27.89 m.m. Exhaust 25.4/25.5 m.m.
 Diameter of port at valve seat: Inlet 24.34 m.m. Exhaust 22.83/23.32 m.m.
 Tappet clearance for checking timing: Inlet .48 m.m. Exhaust .48 m.m.
 Valves open: Inlet 5° BTDC Exhaust 40° BBDC
 Valves close: Inlet 45° ABDC Exhaust 10° ATDC
 Maximum valve lift: Inlet 7.15 m.m. Exhaust 7.15 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 110° ATDC Exhaust 75° ABDC
 $\frac{3}{4}$ Maximum lift: Inlet 62 $\frac{1}{2}$ ° ATDC Exhaust 27 $\frac{1}{2}$ ° ABDC
 Valve springs: Inlet Exhaust
 Type Coil Coil
 No. per valve One One
 Carburettor: Type S.U. No. fitted One
 (up or down draft, horizontal)
 Make Semi down draught Model H.S.2
 Flange hole diameter 31.75 m.m. Choke diameter Variable m.m.
 Main jet identification No. 0.090"

Air filter: Type Combined cleaner - silencer No. fitted One

Inlet manifold:

Diameter of flange hole at carburettor Less chamber 31.75 m.m.

Diameter of flange hole at port Less chamber 26.95 m.m.



Exhaust manifold: Outer Ports 26.95 x 22.2
Diameter of flange hole at port Centre Port 26.95 x 25.4 m.m.
Diameter of flange hole at connection to silencer inlet pipe 28.55 m.m.



Photograph of exhaust manifold to be affixed here.

ENGINE ACCESSORIES

Make of fuel pump S.U No. fitted One
Method of operation Electrical
Type of ignition system Coil coil or magneto
Make of ignition Lucas Model 25D4
Method of advance and retard Automatic centrifugal & vacuum control
Make of ignition coil Lucas Model LA. 12
No. of ignition coils One Voltage 12
Make of dynamo Lucas Model C.40
Voltage of dynamo 12 Maximum output 19 amps.
Make of starter motor Lucas Model M.35G.
Battery: No. fitted 1 Voltage 12 Capacity 43 amp. hour
Oil Cooler (if fitted) type _____ Capacity _____ pints

Make Wolseley Model Hornet MK II F.I.A. Recognition No.

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TRANSMISSION (Newton Bennett)

Make of clutch BMC (Clutch plate) Type Direct operational

Diameter of clutch plate 7 1/8" No. of plates 1

Method of operating clutch Hydraulic

Make of gearbox BMC Type Synchromesh

No. of gearbox ratios 4 forward, 1 reverse

Method of operating gearshift Manual

Location of gearshift Floor

Is overdrive fitted? No

Method of controlling overdrive, if fitted -

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
<u>C/Mesh</u>								
1.	<u>3.627</u>	<u>28/19</u>						
		<u>32/13</u>						
2.	<u>2.172</u>	<u>28/19</u>						
3.	<u>1.412</u>	<u>23/24</u>						
4.	<u>1</u>							
<u>Rev./</u>	<u>3.627</u>	<u>32/13</u>						

Type of final drive Helical spur gears

Type of differential Bevel gears

Final drive ratio 3.765 Alternatives 3.4:1

No. of teeth 64/17 18/62

Overdrive ratio, if fitted No

WHEELS

Type Disc Weight 3.175 kg.

Method of attachment Four studs & nuts

Rim diameter 254 m.m. Rim width 88.9 m.m.

Tyre size: Front 5.20 x 10 Rear 5.20 x 10

BRAKES

Method of operation Hydraulic system

Is servo assistance fitted? No

Type of servo, if fitted

No. of hydraulic master cylinders One Bore 17.78 m.m.

	Front	Rear
No. of wheel cylinders per brake	Two	One
Bore of wheel cylinders	20.32 m.m.	15.88 m.m.
Inside diameter of brake drums	177.8 m.m.	177.8 m.m.
No. of shoes per brake	Two	Two
Outside diameter of brake discs	m.m.	m.m.
No. of pads per brake	m.m.	m.m.
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	171.45 m.m.	171.45 m.m.
	m.m.	m.m.
Width	38.10 m.m.	31.75 m.m.
Total area per brake	13060 m.m. ²	10887 m.m. ²

SUSPENSION

	Front	Rear
Type	Transverse wishbone	Trailing arm
Type of spring	Rubber cone	Rubber cone
Is stabiliser fitted?	No	No
Type of shock absorber	Telescopic	Telescopic
No. of shock absorbers	One per wheel	One per wheel

STEERING

Type of steering gear	Rack & pinion	
Turning circle of car	31 FT.	9.45 m., approx.
No. of turns of steering wheel from lock to lock	2 $\frac{1}{2}$	

CAPACITIES AND DIMENSIONS

Fuel tank	25	litres	Sump	5.12	litres	
Radiator	3.5	litres				
Overall length of car	327.02	cm.	Overall width of car	140.97	cm.	
Overall height of car, unladen (with hood up, if appropriate)	134.62		cm.			
Distance from floor to top of windscreen:						
Highest point	101.6	cm.	Lowest point	71.75	cm.	
Width of windscreen:						
Maximum width	113.39	cm.	Minimum width	113.39	cm.	
*Interior width of car	116.84 cm.					
No. of seats	4					
Track: Front	120.7	cm.	Rear	117.66	cm.	
Wheelbase	203.5		cm.	Ground clearance	156.4	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 639 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.²

Size of exhaust port:

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

Height.....m.m. Area.....m.m.²

Size of transfer port:

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

Height.....m.m. Area.....m.m.²

Size of piston port:

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

Height.....m.m. Area.....m.m.²

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:—

Sump guard - 21A.1037

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159/R 63
159/W 63



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1198
1199

2/ET

ROYAL AUTOMOBILE CLUB

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Amendment to Form of Recognition

Manufacturer.....The British Motor Corporation.....

Model.....Riley Elf Mk II / Wolseley Hornet Mk II.....

Add to optional equipment

High Traction Differential

Part No. C/AJJ 3303



Stamp of F.I.A./R.A.C. to be affixed here.

Date amendment is valid from

1st April 1965
Form: R.F.I.B.

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1199

1/1/ET

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Amendment to Form of Recognition

Manufacturer..... Wolseley Motors Limited

Model..... Wolseley Hornet MK II

Introduction of Hydrolastic Suspension



Suspension

Type

Type of Spring

Is Stabiliser fitted?

Type of Shockabsorber

Front

Transverse wishbone

Hydrolastic Displacer

No

Incorporated in Displacer

Rear

Trailing Arm

Hydrolastic Displacer

No

Incorporated in Displacer



Stamp of F.I.A./R.A.C. to be affixed here.

Date amendment is valid from

16 Nov 1964

Form: R.F.I.B.