

Manufacturers Reference No. for Application

1016



F.I.A. Recognition No.

1137

# 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..... STANDARD TRIUMPH INTERNATIONAL LTD.,

Model..... TRIUMPH VITESSE 6 SALOON. Year of Manufacture..... 1962.

Chassis..... HB I DL ONWARDS..

Serial No. of Engine..... HB I HE ONWARDS..

Type of Coachwork..... SALOON.

Recognition is valid from..... - 5 OCT 1962..... In category..... TOURING.



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



Form: R.F.I.A.

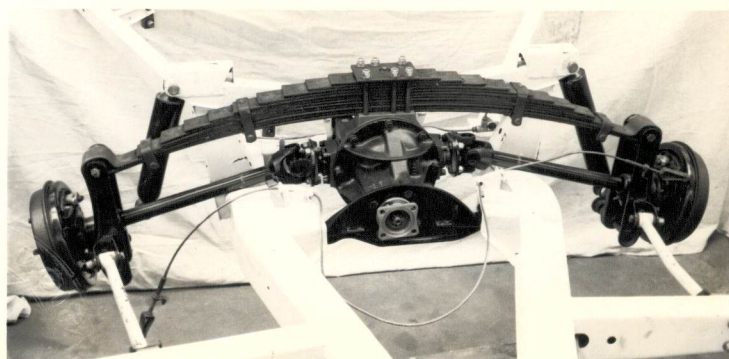
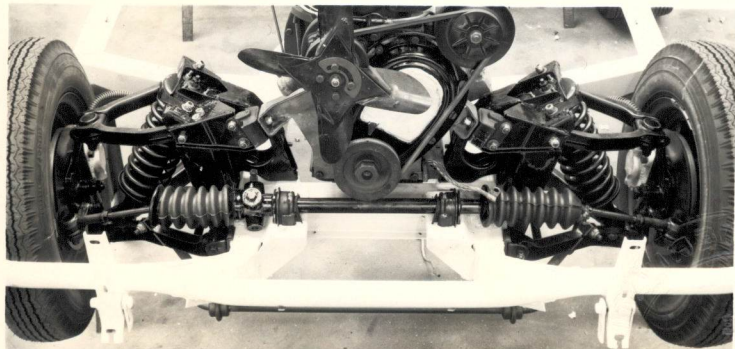
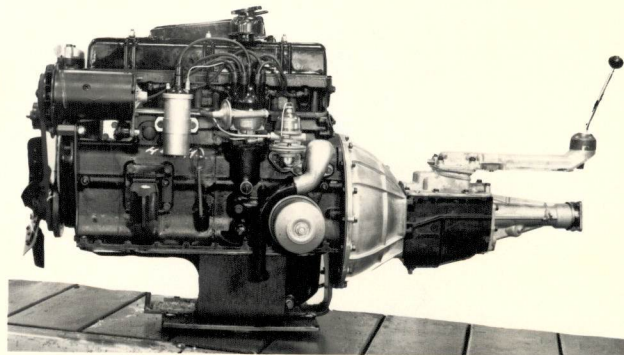
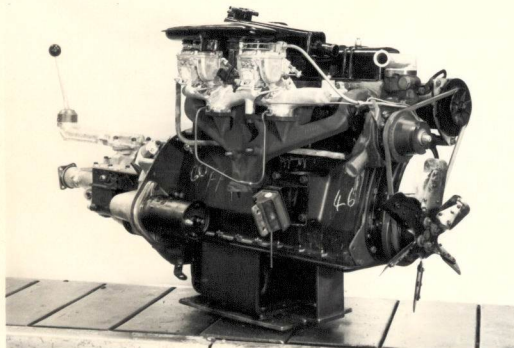
General description of car:

Specify here material/s of  
chassis/body construction

STEEL BODY AND CHASSIS.



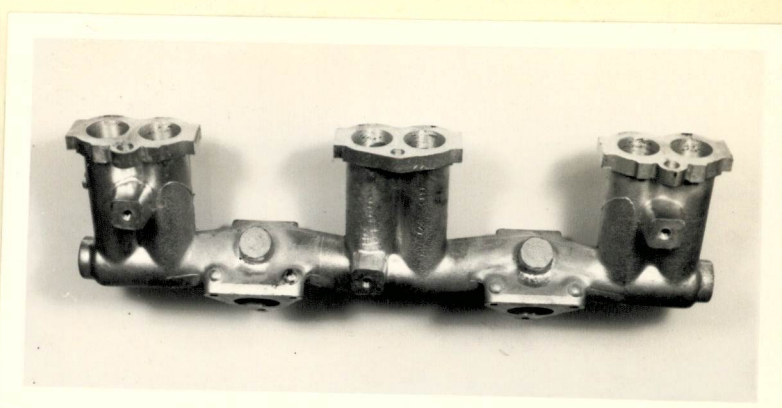
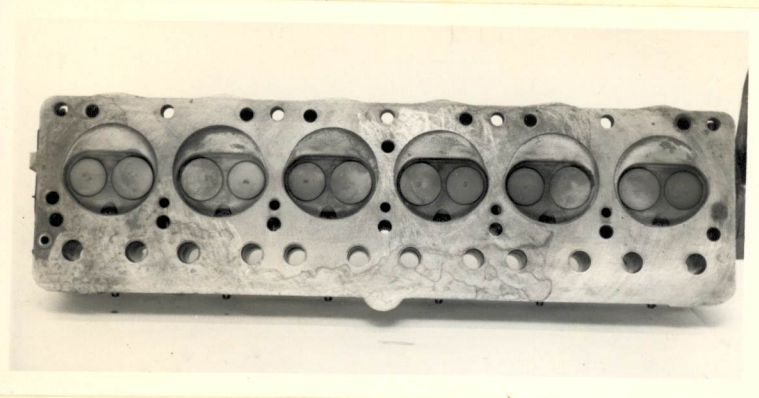
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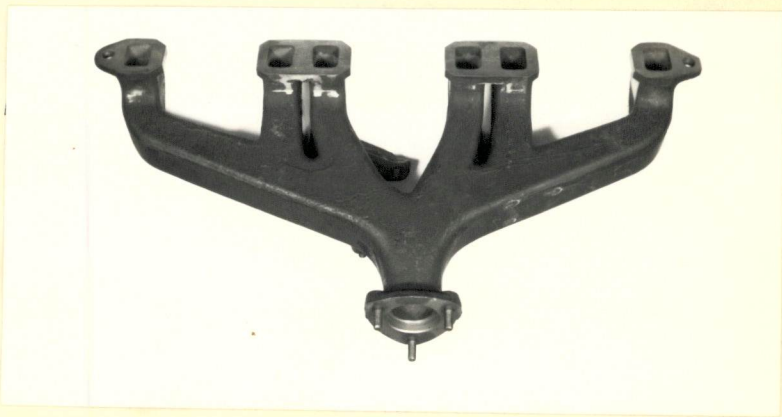
# ENGINE

in line ..... XXXXXX .....  
 No. of cylinders 6 .....  
~~Opposed~~ .....  
 Cycle FOUR STROKE ..... Firing order 1, 5, 3, 6, 2, 4 .....  
 Capacity 1596 c.c. Bore 66.75 m.m. Stroke 76 m.m.  
 Maximum rebore .040" Resultant capacity 1645 c.c.  
 Material of cylinder block CAST IRON Material of sleeves, if fitted NOT NORMALLY FITTED.  
 Distance from crankshaft centre line to top face of block at centre line of cylinders 223 m.m.  
 Material of cylinder head CAST IRON Volume of one combustion chamber 29.67 c.c.  
 Compression ratio 8.75 to 1  
 Material of piston ALUMINIUM ALLOY No. of piston rings 3  
 Distance from gudgeon pin centre line to highest point of piston crown 38.1 m.m.  
 Bearings { Crankshaft main bearings: Type LEAD INDIUM Dia. 50.8 m.m.  
 Connecting rod big end: Type LEAD INDIUM Dia. 47.55 m.m.  
 Weights { Flywheel 9.1 kg.  
 Crankshaft 19.1 kg.  
 Connecting rod 0.68 kg.  
 Piston with rings .37 kg.  
 Gudgeon pin .085 kg.  
 No. of valves per cylinder 2 Method of valve operation BY PUSHROD.  
 No. of camshafts 1 Location of camshafts IN SIDE OF BLOCK.  
 Type of camshaft drive BY CHAIN.  
 Diameter of valves: Inlet 33 m.m. Exhaust 29.9 m.m.  
 Diameter of port at valve seat: Inlet 30.2 m.m. Exhaust 27 m.m.  
 Tappet clearance for checking timing: Inlet 0.4 m.m. Exhaust 0.4 m.m.  
 Valves open: Inlet 18° BTDC $\frac{1}{2}$  Exhaust 58° BBDC.  
 Valves close: Inlet 58° ABDC. Exhaust 18° ATDC.  
 Maximum valve lift: Inlet 7.92 m.m. Exhaust 7.92 m.m.  
 Degrees of crankshaft rotation from zero to—  
 Maximum lift: Inlet 128° Exhaust 128°  
 $\frac{3}{4}$  Maximum lift: Inlet 76° Exhaust 76°  
 Valve springs: Inlet Exhaust  
 Type COIL COIL  
 No. per valve 2 2  
 Carburettor: Type SEMI DOWN DRAUGHT No. fitted 2  
 (up or down draft, horizontal)  
 Make SOLEX Model 32 P.I.H.  
 Flange hole diameter 32 m.m. Choke diameter 20 m.m.  
 Main jet identification No. IIO

Air filter: Type..... A.C. PAPER. No. fitted..... I.  
 Inlet manifold:  
 Diameter of flange hole at carburettor..... 32 m.m.  
 Diameter of flange hole at port..... 28.6 m.m.



Exhaust manifold:  
 Diameter of flange hole at port..... 28.7 x 23.85 Rectangular. m.m.  
 Diameter of flange hole at connection to silencer inlet pipe..... 38.1 m.m.



**ENGINE ACCESSORIES**

Make of fuel pump..... A.C. No. fitted..... I.  
 Method of operation..... MECHANICAL.  
 Type of ignition system..... COIL. coil or magneto  
 Make of ignition..... LUCAS. Model \_\_\_\_\_  
 Method of advance and retard..... CENTRIFUGAL AND VACUUM AUTOMATIC.  
 Make of ignition coil..... LUCAS. Model HA I2  
 No. of ignition coils..... I. Voltage..... I2.  
 Make of dynamo..... LUCAS. Model..... CV 40.  
 Voltage of dynamo..... I2. Maximum output..... 22 amps.  
 Make of starter motor..... LUCAS. Model..... M 35 G.  
 Battery: No. fitted..... I Voltage..... I2. Capacity..... 38 amp. hour  
 Oil Cooler (if fitted) type..... ----- Capacity..... ----- pints

Make **TRIUMPH** Model **VITESSE 6** F.I.A. Recognition No. **SALOON**  
 Manufacturers Reference No. of Application **1016.**

**TRANSMISSION**

Make of clutch **BORG AND BECK.** Type **SINGLE DRY PLATE.**  
 Diameter of clutch plate **8"** No. of plates **1.**  
 Method of operating clutch **HYDRAULIC.**  
 Make of gearbox **OWN MAKE.** Type **MANUAL.**  
 No. of gearbox ratios **4 FORWARD AND 1 REVERSE.**  
 Method of operating gearshift **LEVER ON CENTRE FLOOR.**  
 Location of gearshift **CENTRE FLOOR.**  
 Is overdrive fitted? **OPTIONAL EXTRA.**  
 Method of controlling overdrive, if fitted **ELECTRICAL SWITCH.**

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	2.932	$\frac{26}{19} \times \frac{30}{14}$						
2.	1.779	$\frac{26}{19} \times \frac{26}{20}$						
3.	1.254	$\frac{26}{19} \times \frac{22}{24}$						
4.	1.000	DIRECT.						
REVERSE	2,932	$\frac{26}{19} \times \frac{30}{14}$						

Type of final drive **HYPOLID BEVEL.**  
 Type of differential **NON LIMITED SLIP.**  
 Final drive ratio **4.11** Alternatives **4.55**  
 No. of teeth **9/37** **9/41.**  
 Overdrive ratio, if fitted **.802 OPTIONAL EXTRA.**

**WHEELS**

Type **STEEL DISC.** Weight **5.2** kg. **WHEEL ONLY**  
 Method of attachment **4 BOLTS AND NUTS.**  
 Rim diameter **330** m.m. Rim width **89** m.m.  
 Tyre size: Front **5.60 x 13"** Rear **5.60 x 13"**

**BRAKES**

Method of operation **HYDRAULIC.**  
 Is servo assistance fitted? **OPTIONAL EXTRA.**  
 Type of servo, if fitted **VACUUM.**  
 No. of hydraulic master cylinders **1** Bore **15.8** m.m.

	Front		Rear
No. of wheel cylinders	2 PER WHEEL.		1 PER WHEEL.
Bore of wheel cylinders	42.8	m.m.	7" 18.78 m.m.
Inside diameter of brake drums		m.m.	203 m.m.
No. of shoes per brake			2
Outside diameter of brake discs	232	m.m.	m.m.
No. of pads per brake	2		
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	56	m.m.	193.5 m.m.
		m.m.	m.m.
Width	38.1	m.m.	31.8 m.m.
Total area per brake	8732	m.m. <sup>2</sup>	20280 m.m. <sup>2</sup>

### SUSPENSION

	Front		Rear
Type	INDEPENDENT		INDEPENDENT.
Type of spring	COIL		TRANSVERSE LEAF.
Is stabiliser fitted?	YES.		NO.
Type of shock absorber	TELESCOPIC		TELESCOPIC.
No. of shock absorbers	2		2

### STEERING

Type of steering gear..... RACK AND PINION.

Turning circle of car..... 7.6 m., approx.

No. of turns of steering wheel from lock to lock..... 4 $\frac{3}{4}$ . Optional 3 $\frac{3}{4}$

### CAPACITIES AND DIMENSIONS

Fuel tank..... 40 litres Sump..... 4 litres

Radiator..... 14 litres

Overall length of car..... 388.5 cm. Overall width of car..... 152.5 cm.

Overall height of car, unladen (with hood up, if appropriate)..... 133.5 cm.

Distance from floor to top of windscreen:

Highest point..... 101.6 cm. Lowest point..... 100.3 cm.

Width of windscreen:

Maximum width..... 120 cm. Minimum width..... 104 cm.

\*Interior width of car..... 124 cm. Max.

No. of seats..... 4

Track: Front..... 124.5 cm. Rear..... 122.0 cm.

Wheelbase..... 232.5 cm. Ground clearance..... 170 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..... 876 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:—

ADDITIONAL 9 GALLON FUEL TANK.

RADIATOR AND SUMP SKID SHIELD.

4½ x 13" STEEL DISC WHEELS.



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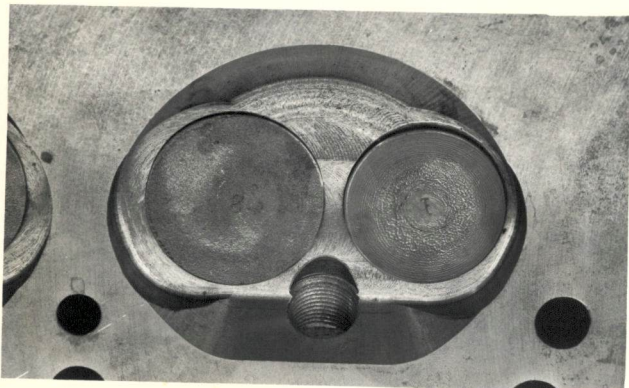
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## Federation Internationale de l'Automobile.

Amendment to Form of Recognition

Manufacturer..... STANDARD TRIUMPH INTERNATIONAL LTD.

Model..... TRIUMPH VITESSE SALOON



Combustion chamber design amended from original production item.  
Incorporated from Engine Number HE 16303 HE onwards.



*Arbutnot*

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

Date amendment is valid from

11<sup>th</sup> April 1964

Form: R.F.I.B.