

Manufacturers Reference No. for Application

1012.



F.I.A. Recognition No.

98

ROYAL AUTOMOBILE CLUB

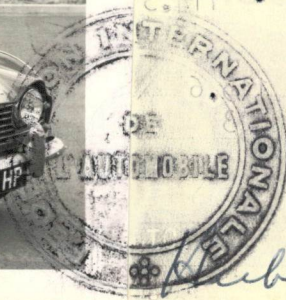
PALL MALL, LONDON, S.W.1.

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 TR4 with 2138cc Engine.** Year of Manufacture..... **1962 onwards :-**
Chassis..... **CT 1 D Onwards.**
Serial No. of Engine..... **CT 1 E Onwards.**
Type of Coachwork..... **2 seater, 2 door, soft or hard tops.**
Recognition is valid from..... **29 JANV 1963**..... In category..... **Grand Tourisme.**

liste 9/19



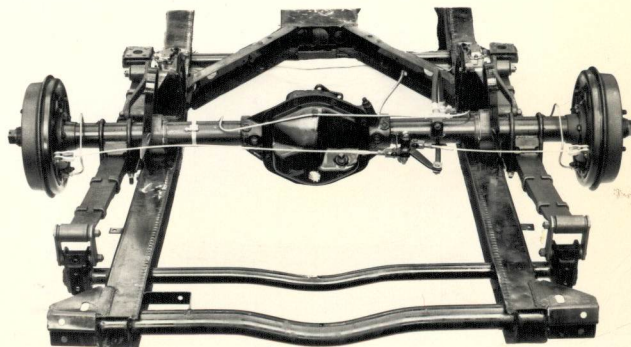
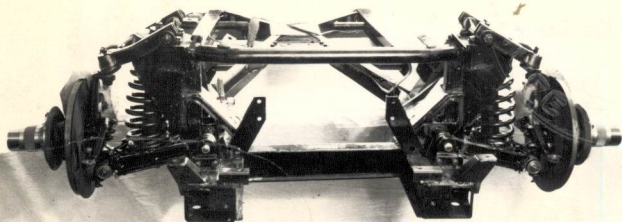
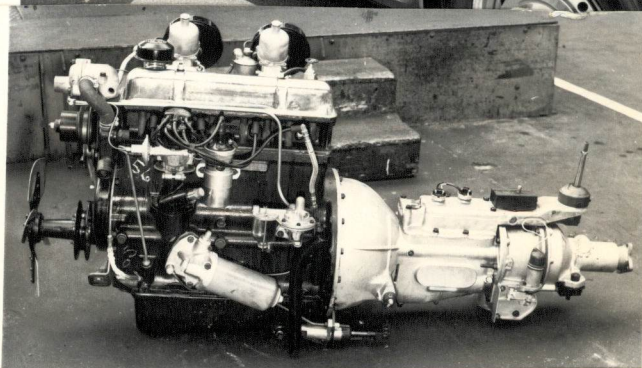
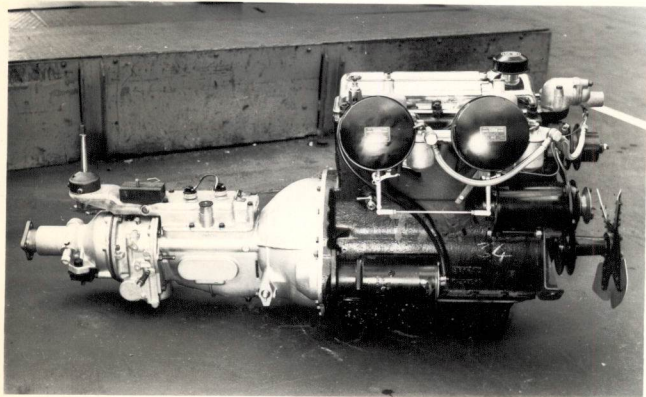
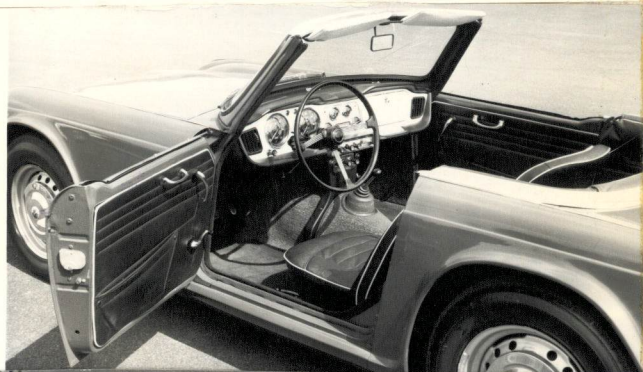
Stamp of F.I.A./R.A.C. to be
affixed here.

Form: R.F.I.A.

General description of car:

Specify here material/s of
chassis/body construction

STEEL BODY AND STEEL CHASSIS.

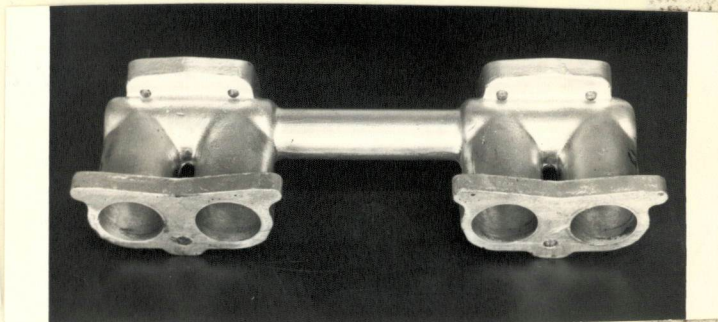
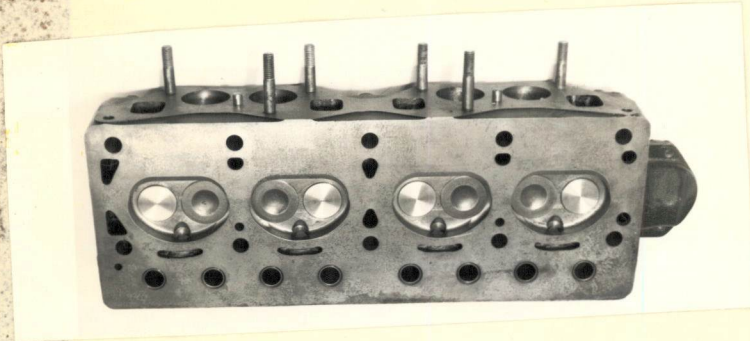


ENGINE

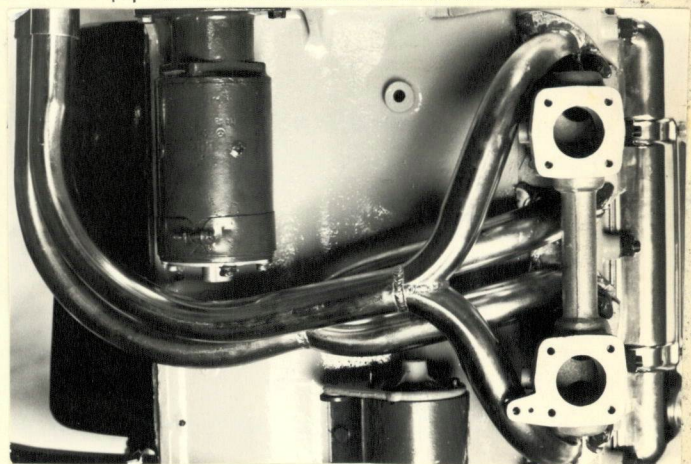
IN LINE

No. of cylinders 4 in line IN LINE
~~XXV~~
~~XXXXX~~
~~XXXXXX~~
 Cycle FOUR STROKE. Firing order 1,3,4,2.
 Capacity 2138 cc. c.c. Bore 86 m.m. Stroke 92 m.m.
 Maximum rebore Resultant capacity c.c.
 Material of cylinder block CAST IRON. Material of sleeves, if fitted CAST NICKEL CHROME.
 Distance from crankshaft centre line to top face of block at centre line of cylinders 256 m.m.
 Material of cylinder head CAST IRON. Volume of one combustion chamber 59.2 c.c.
 Compression ratio 9 to 1
 Material of piston ALUMINIUM ALLOY. No. of piston rings 3
 Distance from gudgeon pin centre line to highest point of piston crown 50.90 m.m.
 Bearings { Crankshaft main bearings: Type D2 SIMETAL. Dia. 62.97 m.m.
 Connecting rod big end: Type LEAD INDIUM. Dia. 52.98 m.m.
 Weights { Flywheel 11.4 kg.
 Crankshaft 19 kg.
 Connecting rod .94 kg.
 Piston with rings } kg.
 Gudgeon pin } .6 kg.
 No. of valves per cylinder 2 Method of valve operation BY PUSHROD.
 No. of camshafts ONE Location of camshafts IN SIDE OF BLOCK.
 Type of camshaft drive BY CHAIN.
 Diameter of valves: Inlet 36.9 m.m. Exhaust 29.8 m.m.
 Diameter of port at valve seat: Inlet 37.3 m.m. Exhaust 30.2 m.m.
 Tappet clearance for checking timing: Inlet .381 m.m. Exhaust .381 m.m.
 Valves open: Inlet 15° BTDC. Exhaust 55° BBDC
 Valves close: Inlet 55° ABDC Exhaust 15° ATDC.
 Maximum valve lift: Inlet 9.652 m.m. Exhaust 9.652 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 125° Exhaust 125°
 $\frac{3}{4}$ Maximum lift: Inlet 73° Exhaust 73°
 Valve springs: Inlet Exhaust
 Type COIL. COIL.
 No. per valve 2 3
 Carburettor: Type SEMIDOWN DRAUGHT. No. fitted 2
 (up or down draft, horizontal)
 Make S,U. Model H 6.
 Flange hole diameter 46 m.m. Choke diameter VARIABLE. m.m.
 Main jet identification No. 100

Air filter: Type FLAME TRAP WIRE GAUZE. No. fitted 2
 Inlet manifold: 46 mm
 Diameter of flange hole at carburettor m.m.
 Diameter of flange hole at port 38 mm m.m.



Exhaust manifold:
 Diameter of flange hole at port 37.5 x 33 mm Rectangular. m.m.
 Diameter of flange hole at connection to silencer inlet pipe 50.8 mm m.m.



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 25 D 4
 Method of advance and retard CENTRIFUGAL AND VACUUM ADVANCE AUTOMATIC.
 Make of ignition coil LUCAS Model HA 12
 No. of ignition coils 1 Voltage 12
 Make of dynamo LUCAS. Model C40/1
 Voltage of dynamo 12 Maximum output 20 amps.
 Make of starter motor LUCAS Model M/418/G
 Battery: No. fitted 1 Voltage 12 Capacity 57 amp. hour
 Oil Cooler (if fitted) type Air/Oil Radiator. Capacity 2/3 pints
Optional Extra.

Make **TRIUMPH** Model **TR4 with 2138 cc** F.I.A. Recognition No. _____
 Manufacturers Reference No. of Application **1012.**

TRANSMISSION

Make of clutch **BORG AND BECK.** Type **SINGLE DRY PLATE.**
 Diameter of clutch plate **9"** No. of plates **1**
 Method of operating clutch **HYDRAULIC.**
 Make of gearbox **OWN MAKE.** Type **MANUAL SYNCHROMESH.**
 No. of gearbox ratios **4 FORWARD AND 1 REVERSE.**
 Method of operating gearshift **MANUAL.**
 Location of gearshift **FLOOR MOUNTED.**
 Is overdrive fitted? **OPTIONAL EXTRA.**
 Method of controlling overdrive, if fitted **BY ELECTRICAL SWITCH.**

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.14	$\frac{35}{23} \times \frac{35}{16}$						
2.	2.01	$\frac{35}{23} \times \frac{33}{25}$						
3.	1.33	$\frac{35}{23} \times \frac{27}{31}$						
4.	1.00	DIRECT.						
5.	3.22	$\frac{35}{23} \times \frac{36}{17}$						

Type of final drive **HYPLOID BEVEL.**
 Type of differential **NON LIMITED SLIP. LIMITES SLIP OPTIONAL EXTRA.**
 Final drive ratio **3.7** Alternatives **4.1 4.3 4.55**
 No. of teeth **10/37** **10/41 10/43 9/41**
 Overdrive ratio, if fitted **.821 to 1 OPTIONAL EXTRA.**

WHEELS

Type **STEEL DISC 4J x 15"** Weight **7.7** kg.
 Method of attachment **4 STUD FIXING.**
 Rim diameter **381** m.m. Rim width **102** m.m.
 Tyre size: Front **5.90 x 15"** Rear **5.90 x 15"**

BRAKES

Method of operation **HYDRAULIC.**
 Is servo assistance fitted? **OPTIONAL EXTRA.**
 Type of servo, if fitted **VACUUM.**
 No. of hydraulic master cylinders **1** Bore **17.78** m.m.

	Front		Rear
No. of wheel cylinders	2 PER BRAKE.		1 PER BRAKE.
Bore of wheel cylinders	54	m.m.	17.78
Inside diameter of brake drums		m.m.	228.6
No. of shoes per brake			2
Outside diameter of brake discs	279.4	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	77 @ EFF RAD OF 111mm.	m.m.	438.8
		m.m.	m.m.
Width	57	m.m.	44.5
Total area per brake	17000	m.m. ²	39000

SUSPENSION

	Front		Rear
Type	INDEPENDENT		LIVE AXLE.
Type of spring	COIL		SEMI ELLIPTIC LEAF.
Is stabiliser fitted?	OPTIONAL EXTRA		NO
Type of shock absorber	TELESCOPIC		PISTON TYPE.
No. of shock absorbers	2		2

STEERING

Type of steering gear	RACK AND PINION.
Turning circle of car	10
	m., approx.
No. of turns of steering wheel from lock to lock	2½

CAPACITIES AND DIMENSIONS

Fuel tank	53.5	litres	Sump	6.25	litres
Radiator	7.5	litres			
Overall length of car	396.0	cm.	Overall width of car	146	cm.
Overall height of car, unladen (with hood up, if appropriate)	127	cm.			
Distance from floor to top of windscreen:					
Highest point	114.3	cm.	Lowest point	112.4	cm.
Width of windscreen:					
Maximum width	115.6	cm.	Minimum width	103.5	cm.
*Interior width of car	123	cm.			
No. of seats	2				
Track: Front	124.5	cm.	Rear	122	cm.
Wheelbase	224	cm.	Ground clearance	15.2	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	946	kgs.
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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:—

Alternative Carburettor equipment.

2 Horizontal 42 DCOE Weber Double Choke Instruments.

18 Gallon fuel tank.

~~7 Gallon fuel tank.~~

Sump/Radiator skid shield kit.

Aluminium sump kit.

Wheels. 48 spoke wire centre lock wheels. 4J x 15.

60 spoke wire centre lock wheels. 4½ J x 15

Steel belt on 5J x 15 wheels.

Aluminium alloy belt on 5J x 15 wheels

~~Aluminium flywheel kit, weight 4.3 kg.~~

Sports camshaft

~~Sports camshaft.~~ Inlet opens 31° BTDC close 67° ABDC. Ex opens 70° BBDC close 28° ATDC.

~~Alternative Inlet manifold (photograph) DERRINGTON.~~

Alternative exhaust manifold. (photograph)

ALFIN brake drums - rear.



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