

Manufacturers Reference No. for Application

VM 64/1



F.I.A. Recognition No.

1297

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 VAUXHALL MOTORS LTD.

Model FBS/D/E - VICTOR

Year of Manufacture 1964

Serial No. of Chassis FBS/D/E 4250000 ONWARDS

Engine 30 FB 30000 ONWARDS

Type of Coachwork FOUR DOOR SALOON

Recognition is valid from 11th April 1964 In category TOURING



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

Hubert Schmitt

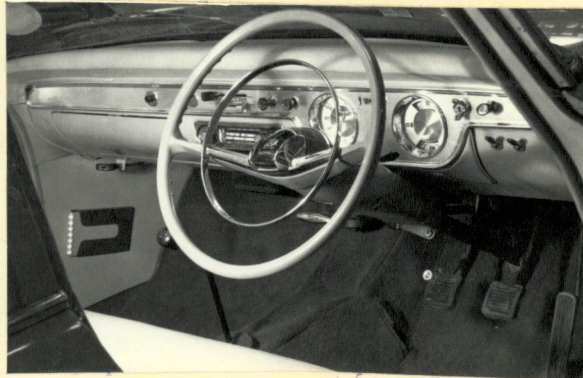
Form: R.F.I.A.

General description of car:

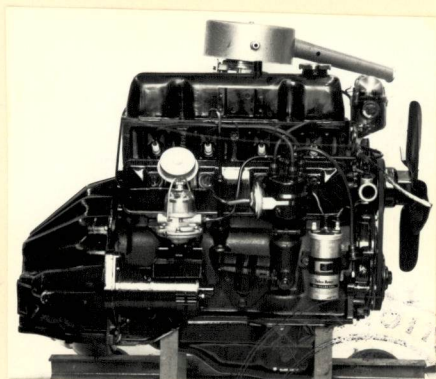
Specify here material/s of
chassis/body construction

SHEET METAL - INTEGRAL CONSTRUCTION

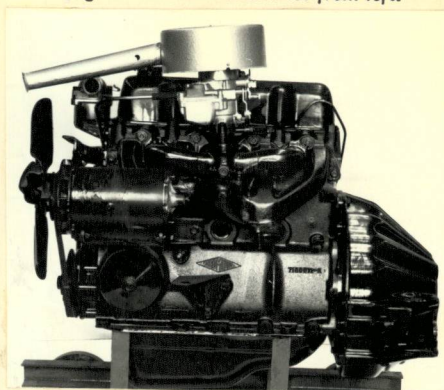
Photographs to be affixed below.



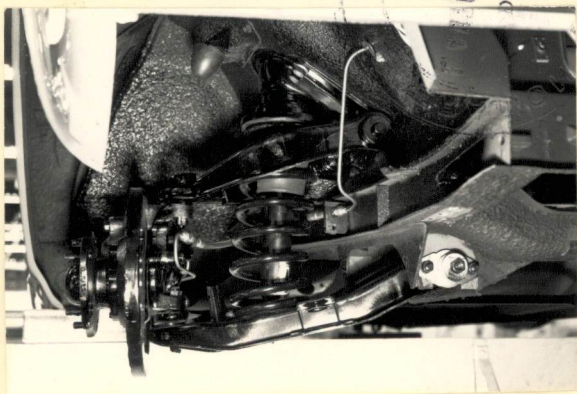
Engine unit with accessories from right.



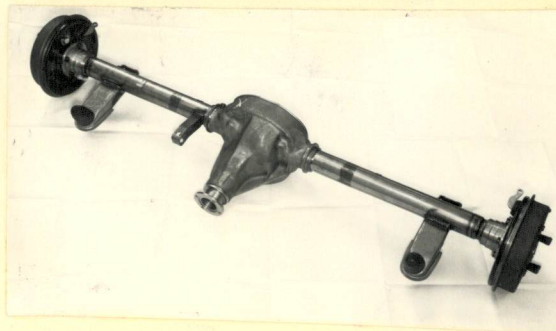
Engine unit with accessories from left.



Front axle complete (without wheels).



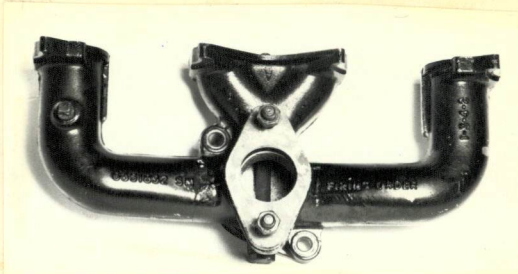
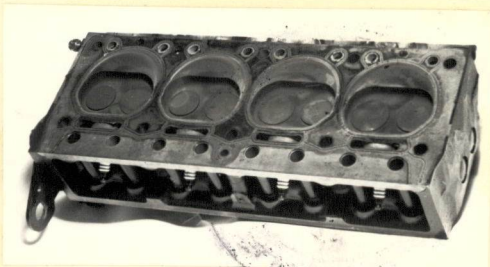
Rear axle complete (without wheels).



ENGINE

in line YES
 No. of cylinders 4 in V -
 opposed -
 Cycle 4 - STROKE Firing order 1-3-4-2
 Capacity 1595 c.c. Bore 81.64 m.m. Stroke 76.2 m.m.
 Maximum rebore .040" Resultant capacity 1636 c.c.
 Material of cylinder block CHROMIUM CAST IRON Material of sleeves, if fitted -
 Distance from crankshaft centre line to top face of block at centre line of cylinders 20.1 m.m.
 Material of cylinder head CAST IRON Volume of one combustion chamber 46.57 c.c. (MEAN)
 Compression ratio 8.5
 Material of piston ALUMINIUM ALLOY No. of piston rings 3
 Distance from gudgeon pin centre line to highest point of piston crown 44.46 m.m.
 Bearings { Crankshaft main bearings: Type WHITE METAL Dia. 53.9 m.m.
 Connecting rod big end: Type ALUMINIUM TIN Dia. 47.6 m.m.
 Weights { Flywheel 10.09 kg.
 Crankshaft 15.5 kg.
 Connecting rod .616 kg.
 Piston with rings .429 kg.
 Gudgeon pin .145 kg.
 No. of valves per cylinder TWO Method of valve operation PUSH ROD
 No. of camshafts ONE Location of camshafts CYLINDER BLOCK
 Type of camshaft drive CHAIN AT FRONT
 Diameter of valves: Inlet 36.58 m.m. Exhaust 31.7 m.m.
~~Diameter of port~~ APPROX. THROAT DIA.
 at valve seat: Inlet 30.68 m.m. Exhaust 26.11 m.m.
 Tappet clearance for checking timing: Inlet 0.33 m.m. Exhaust 0.33 m.m.
 Valves open: Inlet 29.6° B.T.D.C. Exhaust 71.6° B.B.D.C.
 Valves close: Inlet 76.1° A.B.D.C. Exhaust 34.1° A.T.D.C.
 Maximum valve lift: Inlet 8.5 m.m. Exhaust 8.5 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 138.6° Exhaust 138.6°
 $\frac{3}{4}$ Maximum lift: Inlet 84° Exhaust 84°
 Valve springs: Inlet Type HELICAL COIL Exhaust HELICAL COIL
 No. per valve ONE ONE
 Carburettor: Type DOWNDRAUGHT No. fitted ONE
 (up or down draft, horizontal)
 Make ZENITH Model 34 VN
 Flange hole diameter 34 m.m. Choke diameter 28 m.m.
 Main jet identification No. 90

Air filter: Type OIL WETTED No. fitted ONE
 Inlet manifold: CODE 41 DRY ELEMENT
 Diameter of flange hole at carburettor 34.3 m.m.
 Diameter of flange hole at port 33.1 m.m.

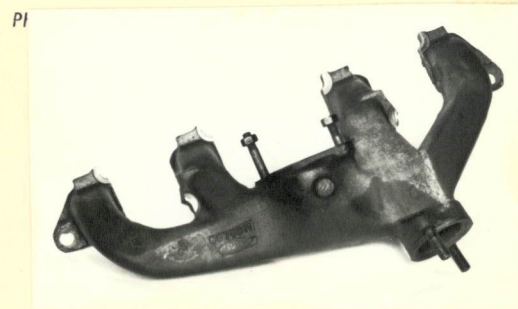


Exhaust manifold:

Diameter of flange hole at port 30.8 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 42.2 m.m.



be affixed here.



ENGINE ACCESSORIES

Make of fuel pump A.C. DELCO No. fitted ONE
 Method of operation MECHANICAL DRIVE FROM CAMSHAFT
 Type of ignition system COIL coil or magneto
 Make of ignition A.C. DELCO Model 7952990
 Method of advance and retard CENTRIFUGAL & VACUUM
 Make of ignition coil A.C. DELCO Model OIL FILLED
 No. of ignition coils ONE Voltage 12
 Make of dynamo LUCAS Model C40-1
 Voltage of dynamo 12V Maximum output 22 amps.
 Make of starter motor LUCAS Model M35
 Battery: No. fitted ONE Voltage 12 Capacity 38 amp. hour
 Oil Cooler (if fitted) type - Capacity - pints

Make VAUXHALL Model VICTOR F.I.A. Recognition No. _____
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TRANSMISSION

Make of clutch BORG & BECK Type DRY
 Diameter of clutch plate 8" No. of plates ONE
 Method of operating clutch MECHANICAL
 Make of gearbox VAUXHALL Type SYNCHROMESH
 No. of gearbox ratios 3 FORWARD ONE REVERSE/4 FORWARD ONE REVERSE
 Method of operating gearshift MANUAL
 Location of gearshift STEERING COLUMN/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
1.	3.186	$\frac{22}{17} \frac{32}{13}$	3.285	$\frac{21}{16} \frac{33}{14}$				
2.	1.635	$\frac{22}{17} \frac{24}{19}$	2.13	$\frac{21}{16} \frac{25}{18}$				
3.	1.1	DIRECT	1.355	$\frac{21}{16} \frac{21}{21}$				
4.			1.1	DIRECT				
REVERSE <u>5</u>	3.050	$\frac{22}{17} \frac{33}{14}$	3.050	$\frac{22}{17} \frac{33}{14}$				

Type of final drive HOTCHKISS
 Type of differential HYPLOID BEVEL
 Final drive ratio 4.125 Alternatives 3.9 4.625
 No. of teeth 8/33 10/39 8/37
 Overdrive ratio, if fitted -

WHEELS

Type DISC Weight 5.64 kg.
 Method of attachment STUD
 Rim diameter 330.2 m.m. Rim width 107.6 m.m.
 Tyre size: Front 5.60 x 13 Rear 5.60 x 13

BRAKES

Method of operation HYDRAULIC
 Is servo assistance fitted? CODE 274 ONLY
 Type of servo, if fitted CODE 274 SUSPENDED VACUUM
 No. of hydraulic master cylinders ONE Bore 19.05 m.m.
5 CODE 274 22.2 M.M.



	Front	Rear
No. of wheel cylinders	TWO	ONE
Bore of wheel cylinders	20.32 m.m.	19.05 m.m.
Inside diameter of brake drums	228.5 m.m.	203.2 m.m.
No. of shoes per brake	TWO	TWO
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	219.5 m.m.	195.2 m.m.
Width	44.45 m.m.	38.1 m.m.
Total area per brake	19500 m.m. ²	14825 m.m. ²

SUSPENSION

	Front	Rear
Type	INDEPENDANT WISHBONE	BEAM AXLE
Type of spring	COIL	SEMI-ELLIPTIC LEAF
Is stabiliser fitted?	YES	NO
Type of shock absorber	DOUBLE ACTING TELESCOPIC	
No. of shock absorbers	TWO	TWO

STEERING

Type of steering gear	BURMAN RECIRCULATING BALL
Turning circle of car	10.3 m., approx.
No. of turns of steering wheel from lock to lock	3.8

CAPACITIES AND DIMENSIONS

Fuel tank	46 litres	Sump	4.27 litres
Radiator	6.55 litres		
Overall length of car	440 cm.	Overall width of car	163 cm.
Overall height of car, unladen (with hood up, if appropriate)	146 cm.		
Distance from floor to top of windscreen:			
Highest point	106 cm.	Lowest point	95 cm.
Width of windscreen:			
Maximum width	130 cm.	Minimum width	122 cm.
*Interior width of car	135 cm.		
No. of seats	FOUR		
Track: Front	130.0 cm.	Rear	132.3 cm.
Wheelbase	154 cm.	Ground clearance	17.5 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..... 864 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:—

CODE 153 + SUMP SHIELD - X7153832
KIT 6393276 STEERING DAMPER ASSY (SPECIAL SERVICE ACCESSORY)

CODE 274 - DISC BRAKES (FRONT ONLY)
NO. WHEEL CYLINDERS - TWO
BORE OF WHEEL CYLINDERS - 50.8 M.M.
OUTSIDE DIA OF DISCS - 266.7 M.M.
NO. OF PADS/BRAKE - TWO
TOTAL AREA BRAKE - 6450 M.M.²

WHEELS FOR CODE 274
RIM DIAMETER 355.6 M.M. RIM WIDTH 114.3 M.M.
TYRE SIZE FRONT & REAR 5.60 + 14

