



F.I.A. Recognition No. 1052

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 Vanden Plas (England) 1923 Ltd.

Model Vanden Plas 3 litre Princess Year of Manufacture 1960

Serial No. of Chassis V/BS1

Engine 29/NO/H or 29V/AH/

Type of Coachwork Saloon

Recognition is valid from 25 / 1 / 61 In category Touring

VP3/60



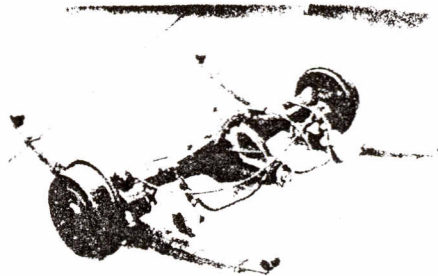
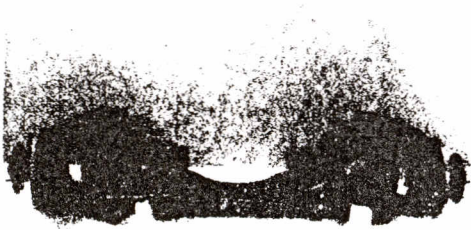
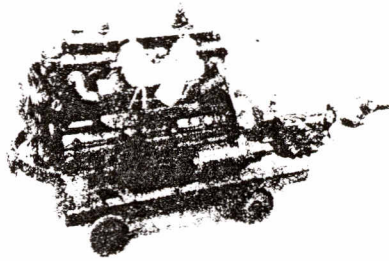
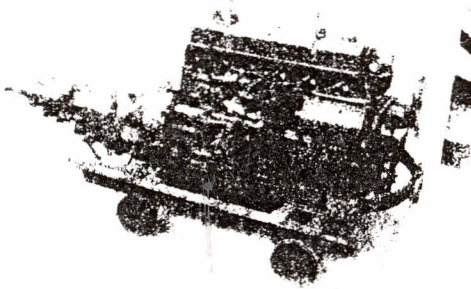
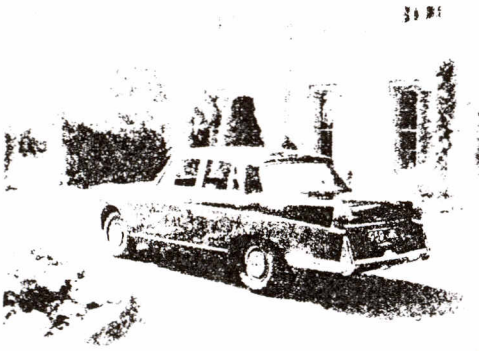
Stamp of F.I.A. 60/61

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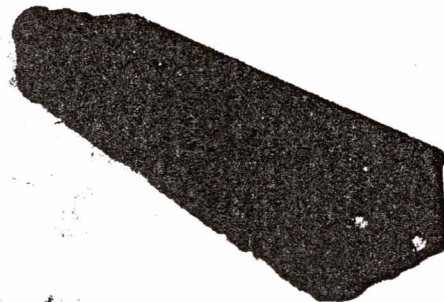
General description of car:



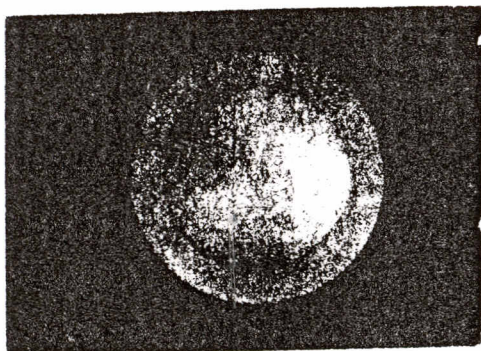
ENGINE

		in line	in line		
No. of cylinders	6	in V	-		
		opposed	-		
Cycle	4	Firing order	1.5.3.6.2.4		
Capacity	2912 c.c.	Bore	83.34 m.m.	Stroke	88.96 m.m.
Maximum rebore	84.36	Resultant capacity	2983.7		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	10.25 ins.		260.35		m.m.
Material of cylinder head	Cast Iron	Volume of one combustion chamber	48.2		c.c.
Compression ratio	8.23:1 or 7.2:1	(varied by piston change)			
Material of piston	Aluminium	No. of piston rings	4		
Distance from gudgeon pin centre line to highest point of piston crown	1.875 ins.		47.62		m.m.
Bearings	{	Crankshaft main bearings: Type	renewable shells	Dia.	50.30 m.m.
		Connecting rod big end: Type	" "	Dia.	50.8 m.m.
Weights	{	Flywheel	28 lb	12.7	kg.
		Crankshaft	59 lb	26.76	kg.
		Connecting rod	2.19 lb	.99	kg.
		Piston with rings	1.075 lb	.488	kg.
		Gudgeon pin	.3 lb	.136	kg.
No. of valves per cylinder	2	Method of valve operation	Push rod and rockers		
No. of camshafts	One	Location of camshafts	Cylinder block		
Type of camshaft drive	Chain				
Diameter of valves:	Inlet 1.688 ins	42.875	m.m.	Exhaust 1.415 ins	35.94 m.m.
Diameter of port at valve seat:	Inlet 1.375 in	34.925	m.m.	Exhaust 1.188 ins	30.175 m.m.
Tappet clearance for checking timing:	Inlet .024 ins	.61	m.m.	Exhaust .024 ins	.61 m.m.
Valves open:	Inlet 5° B.T.D.C.			Exhaust 40° B.B.D.C.	
Valves close:	Inlet 45° A.B.D.C.			Exhaust 10° A.T.D.C.	
Maximum valve lift:	Inlet .314 ins	7.97	m.m.	Exhaust .314 ins	7.97 m.m.
Degrees of crankshaft rotation from zero to—					
Maximum lift:	Inlet 115°			Exhaust 115° with .024" (.61mm) rockers	
¼ Maximum lift:	Inlet 67°			Exhaust 67°	
Valve springs:		Inlet		Exhaust	
Type:	Twin Helical			Twin Helical	
No. per valve	2			2	
Carburettor: Type	Horizontal			No. fitted	2
	(up or down draft, horizontal)				
Make	S.U.	Model	H4		
Flange diameter	1 3/8" 34.92	m.m.	Choke diameter	1 1/2" 38.1	m.m.
Main jet identification No.	-				

Air filter: Type Oil Bath No. fitted One
 Inlet manifold: (Integral with head)
 Diameter of flange at carburettor m.m.
 Diameter of flange at port 1.625 ins 41.27 m.m.



Exhaust manifold rectangular at No. 6 = 1.0" x 1.07 = 25.4 x 27.14 m.m.
 Diameter of flange port at No. 6 = 1.2" x 1.2" = 30.48 x 30.48 m.m.
 Diameter of flange at connection to center inlet pipe 1.7 ins. 43.18 m.m.



ENGINE ACCESSORIES

Make of fuel pump	S.I.	No. fitted	Two
Method of operation	Electrical		
Type of ignition system	Coil		coil or magneto
Make of ignition	Lucas	Model	D.M.6
Method of advance and retard	Vacuum and centrifugal		
Make of ignition coil	Lucas	Model	H.A.12
Number of ignition coils	one	Voltage	12
Make of dynamo	Lucas	Model	C45PV-6
Voltage of dynamo	12	Maximum output	25 amps. @ 13.5 volts
Make of starter motor	Lucas	Model	M418G
Battery No. fitted	one	Voltage	12
		Capacity	50 or 72 amp. hour @ 20 hour rate

Make Vanden Plas Model 3 litre F.I.A. Recognition No. 1052
Princess

TRANSMISSION

Make of clutch Borg & Beck Type Single Plate - Dry
 Diameter of clutch plate 9.87 ins 250.8mm No. of plates One
 Method of operating clutch Hydraulic
 Make of gearbox British Motor Corporation Type 3 speed. Overdrive or Borg-Warner Automatic
 No. of gearbox ratios Four
 Method of operating gearshift Mechanical by gear lever
 Location of gearshift Steering Column or Central at floor level
 Is overdrive fitted? Yes
 Method of controlling overdrive, if fitted Push-pull control on Dash

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.095:1	$\frac{26}{18} \times \frac{30}{14}$	1.2.87:1	$\frac{25}{20} \times \frac{13}{30}$				
2.	1.65:1	$\frac{26}{18} \times \frac{21}{21}$	2.2.06:1	$\frac{23}{20} \times \frac{17}{28}$				
X Top	1.0:1		3.1.51:1 4.1:1	$\frac{25}{20} \times \frac{22}{23}$				
4. X	Reverse 3.00:1	$\frac{26}{18} \times \frac{27}{13}$	R. 3.72:1					

Type of final drive Three-quarter-floating
 Type of differential Bevel type
 Final drive ratio 3.909:1 Alternatives 3.54:1 4.1:1
 No. of teeth 11/43
 Overdrive ratio, if fitted .7:1

WHEELS

Type Disc Weight with tyre 41 lb 18.6 kg.
 Method of attachment Nut and Stud
 Rim diameter 14 in 355.6 m.m. Rim width 5 in 127. m.m.
 Tyre size: Front 7.00 x 14 Rear 7.00 x 14

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? Yes
 Type of servo, if fitted Suspended vacuum
 No. of hydraulic master cylinders one Bore 7/8 in 22.2 m.m.

	Front	Rear
No. of wheel cylinders	Two	One
Bore of wheel cylinders	2 1/8" 53.97 m.m.	.80" 20.32 m.m.
Inside diameter of brake drums	- m.m.	10" 254. m.m.
No. of shoes per brake	-	Two
Outside diameter of brake discs	10.8" 273.05 m.m.	- m.m.
No. of pads per brake	Two	-
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 - Segmental	5.375 x 3.25 rad 136.5 x 82.55 m.m. x 45° x 45° m.m.	9 1/2" 241.3 m.m. m.m.
Width	- m.m.	3" 76.2 m.m.
Total area per brake	1 1/2 sq. in 9352 m.m. ²	57 sq. in 36770 m.m. ²

SUSPENSION

	Front	Rear
Type	Independent	Conventional - live axle
Type of spring	Coil	Semi-elliptic
Is stabiliser fitted?	Yes	Yes
Type of shock absorber	Lever type	Lever type
No. of shock absorbers	1 per suspension unit	1 per suspension unit

STEERING

Type of steering gear	Cam and roller type
Turning circle of car	38 ft. 9 ins. 11.81 m., approx.
No. of turns of steering wheel from lock to lock	four

CAPACITIES AND DIMENSIONS

Fuel tank	16 galls 72.7 litres	Sump	11 1/2 pints 6.54 litres
Radiator	9 1/2 pints 5.63 litres		
Overall length of car	188" 477.5 cm.	Overall width of car	68 1/2" 174 cm.
Overall height of car, unladen (with hood up, if appropriate)	60" 152.4 cm.		
Distance from floor to top of windscreen:			
Highest point	43 1/2" 111 cm.	Lowest point	31 1/2" 80 cm.
Width of windscreen:	55" mean 139.7 cm		
Maximum width	- cm.	Minimum width	- cm.
Interior width	55" 139.7 cm.	(over front seat)	
No. of seats	four - 2x2		
Track: Front	53 13/16" 136.6 cm.	Rear	53 1/4" 135.2 cm.
Wheelbase	108" 274.3 cm.	Ground clearance	7 1/16" 179 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 1500 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:—