

ENGINE

No. of cylinders 4
Bore 69.85 mm(2.749 in.)
Stroke 78 mm (3.07 in.)
Displacement 1196 cc (72.979 cu.in)
Compression ratio 5.45 to 1
B.H.P. at 4000 r.p.m. 35
Cylinder arrangement narrow vee
Valve gear O.H. valves, rocker operated.
Front drive by silent chain,
with automatic stretcher.

Timing System

Intake opens 4 deg. before T.D.C.
closes 42 deg. after B.D.C.
Exhaust opens 42 deg. before B.D.C.
closes 4 deg. after T.D.C.

The above data are obtained by adjusting the intake and exhaust valve clearance to 0.45 mm (0.0177 in.).
The normal clearance between valve and rocker, with warm engine, is 0.25 mm (0.0098 in) for both intake and exhaust valves.

Fuel System

Sedan model: gravity feed from tank to carburettor.
Chassis: feed by electric pump.
Carburettor: 30 VEH ZENITH type, with starter device.
Carburettor data:
Choke tube 22 mm
Main jet 95
Accelerating jet 55
Idling jet 60
Progression jet 90
Starter bushing 3.5
Starter jet 130

Ignition System

6V with battery and automatic advance distributor.
Fixed advance 8 deg. ~ Automatic advance 30 deg.
Spark plugs BOSCH W 185/33 type
Spark plug gap 0.6 mm (0.0235 in)
Breaker contact gap 0.3 to 0.4 mm (0.0118 in to 0.0157 in)

Lubrication System

Forced by gear pump
Full-flow and continuous oil filtering by Auto-Klean filter.
Recommended oils:
GARGOYLE MOBILOIL A, or VEEDOL MEDIUM 3
Recommended oils for very low temperatures:
GARGOYLE MOBILOIL ARCTIC, or VEEDOL WINTER MEDIUM 2

Cooling System

Water circulation by centrifugal pump, with radiator and fan.
Thermostat controlled radiator shutter.

TRANSMISSION

Clutch
Dry, single disc. Pedal free travel: 15 to 20 mm (0.59 to 0.78 in.)
Gearbox
Single unit with the engine, four forward speeds and a reverse one;
third speed silent. Freewheel with control device on dashboard
enabling the driver to disengage it at will.
Ratios:
1st speed 3.175 to 1 3rd speed 1.482 to 1
2nd speed 2.03 to 1 4th speed 1 to 1
Reverse 4.64 to 1

Recommended oils:
GARGOYLE MOBILOIL ULTRA HEAVY, or VEEDOL ULTRA HEAVY.

Propellor Shaft

Tubular, with disc flexible couplings.

Rear Axle

Steel sheet press-forged housing. Gleason Hypoid bevel set, 9 x 43 ratio.
Recommended oils:
GARGOYLE MOBILOIL ULTRA HEAVY, or VEEDOL ULTRA HEAVY.

BRAKES

Expanding shoe type.
LOCKHEED type, pedal controlled, hydraulic brake acting on all wheels.
Independent hand controlled brake operating on the rear wheels.

FRAME AND WHEELS

Steering

Worm screw and wheel type. Steering rod joints provided with silent blocks.
Recommended oils:

GARGOYLE MOBILOIL ULTRA HEAVY, or VEEDOL ULTRA HEAVY.

Front Axle

Camber (measured on rim) 4 per cent
Toe-in (measured on rim) 6 to 8 mm (0.23 to 0.31 in.)
Castor positive 2 deg.

Suspensions

Front: LANCIA patented independent system, automatically lubricated.
Recommended oils:
GARGOYLE MOBILOIL A, or VEEDOL MEDIUM S.
Rear: semi-elliptical leaf springs, with silent block front mountings and roller box rear mountings. Shock bumper.

Wheels

Spoked, with 140 x 40 "Fergat" type rim.

Tyres

140 x 40, very low inflation pressure (1.4 kg/sq.cm. ~ 19.9 lb/sq.in.)