GENERAL SPECIFICATION DATA

ENGINE

Crankshaft

Main journal diameter	58.409–58.422 mm (2.2996–2.3001 in)
Minimum regrind diameter	57.393–57.406 mm (2.2596–2.2601 in)
Crankpin journal diameter	50.800–50.812 mm (2.0000–2.0005 in)
Minimum regrind diameter	49.784–49.797 mm (1.9600–1.9605 in)
Crankshaft end thrust	Taken on thrust washers of centre main bearing
Crankshaft end-float	0.10–0.20 mm (0.004–0.008 in)

Main bearings

Number and type	5, Vandervell shells
Material	Lead–indium
Diametrical clearance	0.010–0.048 mm (0.0004–0.0019 in)
Undersizes	0.254 mm, 0.508 mm (0.010 in, 0.020 in)

Connecting rods

Type	Horizontally split big-end, plain small-end
Length between centres	143.81–143.71 mm (5.662–5.658 in)

Big-end bearings

Type and material	Vandervell VP lead–indium
Diametrical clearance	0.015–0.055 mm (0.006–0.0022 in)
End-float on crankpin	0.15–0.36 mm (0.006–0.014 in)
Undersizes	0.254 mm, 0.508 mm (0.010 in, 0.020 in)

Gudgeon pins

Length	72.67–72.79 mm (2.861–2.866 in)
Diameter	22.215–22.220 mm (0.8746–0.8749 in)
Fit-in connecting rod	Press fit
Clearance in piston	0.002–0.007 mm (0.0001–0.0003 in)

Pistons

Clearance in bore, measured at bottom of skirt at right angles to gudgeon pin	0.018–0.033 mm (0.0007–0.0013 in)

Piston rings

Number of compression	2
Number of oil	1
No. 1 compression ring	Chrome parallel faced
No. 2 compression ring	Stepped to 'L' shaped and marked 'T' or 'TOP'
Width of compression rings	1.56–1.59 mm (0.0615–0.0625 in)
Compression ring gap	0.44–0.57 mm (0.017–0.022 in)
Oil ring type	Perfect circle, type 98-6
Oil ring width	4.811 mm (0.1894 in) max
Oil ring gap	0.38–1.40 mm (0.015–0.055 in)

Camshaft

Location	Central
Bearings	Non serviceable
Number of bearings	5
Drive	Chain 9.52 mm (0.375 in) pitch × 54 pitches

Tappets

Type	Hydraulic, non adjustable

Valves

Length:	
Inlet	116.59–117.35 mm (4.590–4.620 in)
Exhaust	116.59–117.35 mm (4.590–4.620 in)
Seat angle:	
Inlet	45°–45½°
Exhaust	45°–45½°
Head diameter:	
Inlet	39.75–40.00 mm (1.565–1.575 in)
Exhaust	34.226–34,480 mm (1.3475–1.3575 in)
Stem diameter:	
Inlet	8.664–8.679 mm (0.3411–0.3417 in)
Exhaust	8.651–8.666 mm (0.3406–0.3412 in)
Stem to guide clearance:	
Inlet	0.025–0.066 mm (0.0010–0.0026 in)
Exhaust	0.038–0.078 mm (0.0015–0.0031 in)
Valve lift (inlet and exhaust)	9.49 mm (0.374 in)
Valve spring length fitted	40.4 mm (1.590 in) at pressure of 29.5 kg (65 lb)

Lubrication

System	Wet sump, pressure fed
System pressure, engine warm at 2400 rpm	2.1–2.8 kgf/cm² (30–40 lbf/in²)
Oil filter (external)	Full-flow, self-contained cartridge
Oil filter (internal)	Gauze. Pump intake filter
Oil pump type	Gear

Oil pressure relief valve

Type	Non adjustable
Relief valve spring:	
Free length	81.2 mm (3.200 in)
Compressed length at 4.2 kg (9.3 lb) load	45.7 mm (1.800 in)

Oil filter by-pass valve

Type	Non adjustable
By-pass valve spring:	
Free length	37.5 mm (1.48 in)
Compressed length at 0.34 kg (0.75 lb)	22.6 mm (0.89 in)

FUEL SYSTEM—carburetter

Carburetter type	See 'Engine Tuning Data', in Book I.
Fuel pump—make/type	AC Delco—low pressure (electrical) immersed in the fuel tank
Pump delivery pressure	0.28–0.42 kgf/cm² (4–6 lbf/in²)
Fuel filter	AC Delco CD600—element ACD60

FUEL SYSTEM—fuel injection

Fuel system type	See 'Engine Tuning Data', in Book I
Fuel pump—make/type	AC Delco—high pressure (electrical) immersed in the fuel tank
Pump delivery pressure	1.83–2.5 kgf/cm² (26–36 lbf/in²)
Fuel filter	Bosch in-line filter 'canister' type

COOLING SYSTEM

Type	Pressurized spill return system with thermostat control, pump and fan assisted
Thermostat	88°C
Type of pump	Centrifugal

CLUTCH

Type	Borg and Beck diaphragm spring
Centre plate diameter	267 mm (10.5 in)
Facing material	Raybestos 1488-05. Grooved
Damper spring colour	Light blue/dark blue
Release bearing	Ball journal
Number of damper springs	6

Notes