

## H. Engine Lubrication

### Oil Pump

Bore in oil pump housing		$\frac{12.000}{12.018}$
Diameter of drive shaft		$\frac{11.984}{11.973}$
Diameter of oil pump spindle		$\frac{11.973}{11.964}$
Radial play of drive shaft		0.016—0.045
Radial play of oil pump spindle		0.027—0.054
<b>Gear play</b>		
Radial play	End play	Backlash
0.025—0.057	0.020—0.062	0.05—0.10
Minimum axial play between housing and cam		0.2

### Oil Pump Output

Engine speed rpm	Output kg/min	Vacuum suction side mm Hg	Pressure delivery side atm.	Oil temperature °C	Type of oil
5000	24.5—20%	400	5	100°	Engine oil SAE 10

### Oil Relief Valve in Main Oil Flow

Pressure spring						
External diameter mm	Wire gage mm	Length L unloaded mm	Length L <sub>1</sub> depressed under load P <sub>1</sub> mm      kg		Length L <sub>2</sub> under final load P <sub>2</sub> mm      kg	
9.1—9.4	1.4	43.6	39	2.4	25	9.6
Opening pressure of oil relief valve				$6 \pm 0.5 \text{ kg/cm}^2$		

## Oil Relief Valve in Oil Filter

Pressure spring						
External diameter mm	Wire gage mm	Length L unloaded mm	Length L1 depressed under load P1		Length L2 under final load P2	
			mm	kg	mm	kg
12.25	1.25	49	32	2.6	24	3.30
Opening pressure of oil relief valve			for metal filter		2 ± 0.2 kg/cm <sup>2</sup>	
			for paper filter		1.2 ± 0.2 kg/cm <sup>2</sup>	
The varying opening pressures are the result of varying initial tension of the springs						

## I. Engine Cooling

Distance between impeller and water pump flange*	$23 \pm 0.2$
V-belt tension	Depressed with moderate thumb pressure 5—10 mm

\*see Figure 20-5/1

## K. Rear Engine Suspension

Distance between front axle support and rubber buffer**	5
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\*\*see Figure 24-1/1

## L. Torque Readings

Crankshaft bearing bolts		8 mkg
Connecting rod bearing bolts	stretch	0.1 mm
	in mkg	3.75 mkg
Cylinder head attaching screws	with engine cold	8 mkg
	with engine warm	9 mkg
Rocker arm bearing screws		3.75 mkg
Flywheel screws		6-6.5 mkg
Spark plugs		4 mkg