

LUBRICATION

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SERVICE INFORMATION

GENERAL

- This section describes inspection and replacement of engine oil and the oil filter. Also, the cleaning of the strainer and servicing oil pump, oil pass pipe and cooling system.

CAUTION

- Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

SPECIFICATIONS

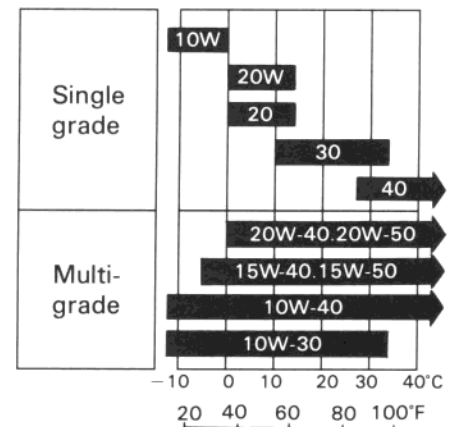
Oil capacity	2.3 liters (2.4 U.S. qt., 2.0 Imp qt) at engine assembly 1.9 liters (2.0 U.S. qt., 1.7 Imp qt) at oil change 1.95 liters (2.06 U.S. qt., 1.72 Imp qt) at oil and oil filter change.
Recommended oil	Use Honda 4-Stroke Oil or equivalent. API Service Classification: SE or SF. VISCOSITY: SAE 10W-40 or 20W-50

NOTE

- Use SAE 10W-40 oil when the outside temperature is below 0°C (32°F).

Other viscosities shown in the chart may be used when the average temperature in your riding area is within the indicated range.

OIL VISCOSITIES



ITEM	STANDARD	SERVICE LIMIT
Oil pump tip clearance	0.15 mm (0.006 in) max.	0.20 mm (0.008 in)
Oil pump body clearance	0.15-0.21 mm (0.006-0.008 in)	0.25 mm (0.010 in)
Oil pump end clearance	0.02-0.08 mm (0.001-0.003 in)	0.12 mm (0.005 in)
Oil pump delivery	Pump A 7.5 liters (7.9 U.S. qt)/min. at 5,300 min ⁻¹ (rpm) Pump B 10.0 liters (10.6 U.S. qt)/min. at 5,300 min ⁻¹ (rpm)	—

TORQUE VALUES

Crankcase drain plug	25 N•m (2.5 kg-m, 18 ft-lb)
Downtube drain plug	40 N•m (4.0 kg-m, 29 ft-lb)
Strainer nut	55 N•m (5.5 kg-m, 40 ft-lb)
Oil inlet hose joint nut	40 N•m (4.0 kg-m, 29 ft-lb)
Oil outlet hose joint nut	40 N•m (4.0 kg-m, 29 ft-lb)
Oil filter cover bolts	9 N•m (0.9 kg-m, 7 ft-lb)

TROUBLESHOOTING

Oil Level Too Low

- Normal oil consumption
- External oil leaks
- Worn piston rings

Oil Contamination

- Oil not changed often enough
- Faulty head gasket

Low oil pressure

- Faulty oil pump
- Oil pump drive gear broken