4. LUBRICATION SYSTEM

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SERVICE INFORMATION

GENERAL

⚠WARNING

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. KEEP OUT OF REACH OF CHILDREN.

- The right crankcase cover must be removed from the crankcase before servicing the oil pump.
- If any portion of the oil pump is worn beyond the specified service limits, replace the oil pump and right crankcase cover as an assembly.
- After the oil pump has been assembled, check that there are no oil leaks and that oil pressure is correct.

SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Engine oil capacity	At draining	1.56 ℓ (1.65 US qt , 1.37 Imp qt)	————
	At oil filter change	1.6 ℓ (1.7 US qt , 1.4 Imp qt)	————
	At disassembly	2.0 ℓ (2.1 US qt , 1.8 Imp qt)	————
Recommended engine oil		Honda 4-stroke oil or equivalent motor oil API service classification: SE, SF or SG	————
Oil pump rotor A, B	Body clearance	0.15—0.22 (0.006—0.009)	0.35 (0.014)
	Tip clearance	0.15 (0.006)	0.20 (0.008)
	Side clearance	0.03—0.08 (0.001—0.003)	0.10 (0.004)

TORQUE VALUES

Down tube oil strainer	54 N·m (5.5 kgf·m , 40 lbf·ft)
Oil pump plate bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)
Outer rotor stopper plate screw	2 N·m (0.2 kgf·m , 1.4 lbf·ft)
Inlet pipe oil bolt	37 N·m (3.8 kgf·m , 27 lbf·ft)

TROUBLESHOOTING

ENGINE OIL TOO LOW — HIGH OIL CONSUMPTION
- External oil leaks
- Worn piston rings
- Oil not changed often enough
- Faulty head gasket

ENGINE OIL CONTAMINATION
- Worn piston rings
- Oil not changed often enough
- Faulty head gasket