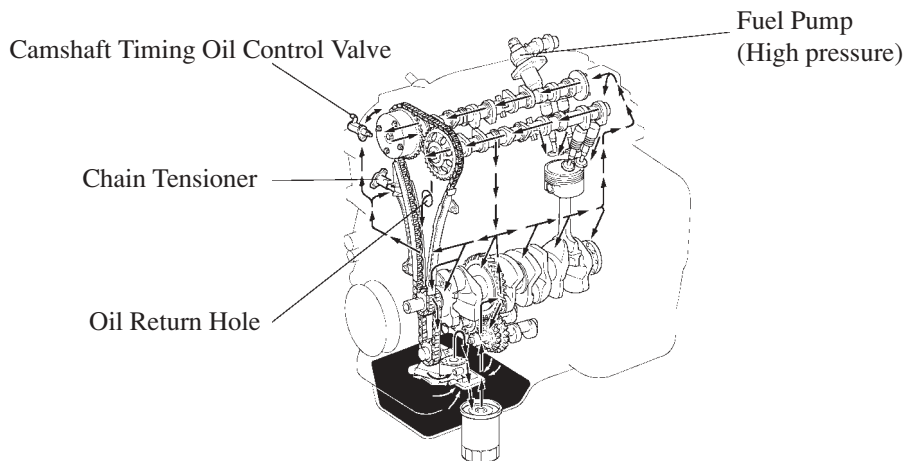


6. Lubrication System

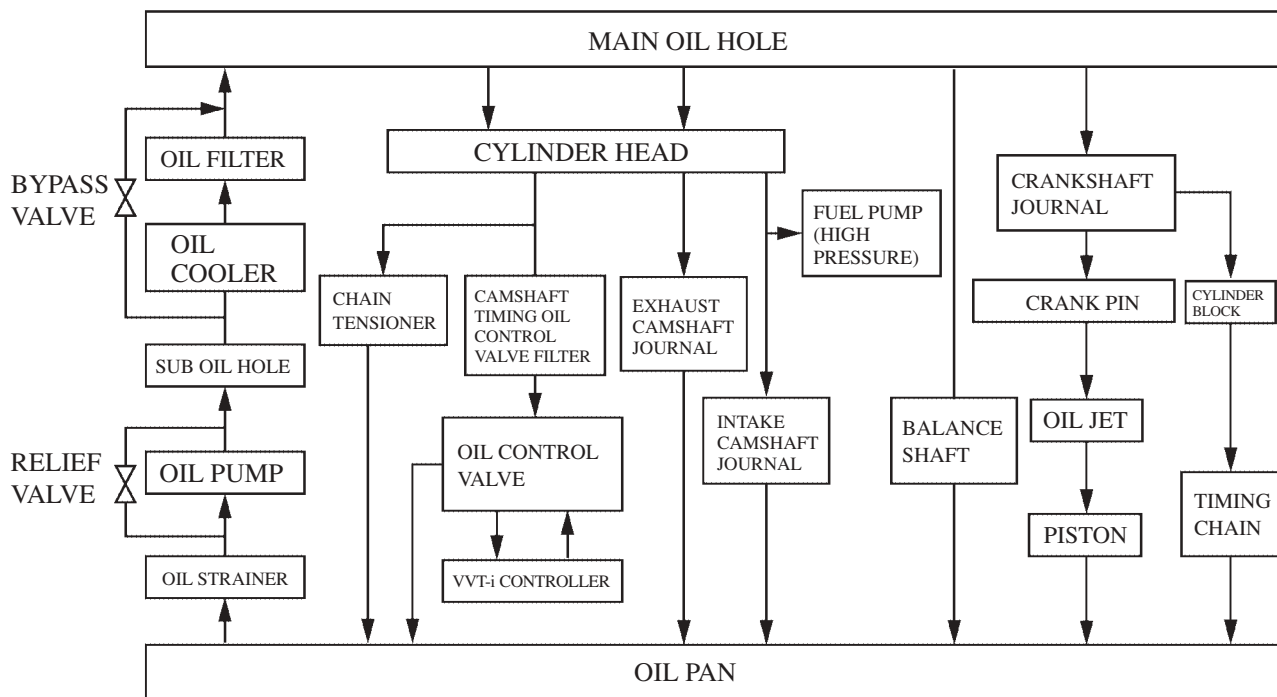
1) General

- The lubrication circuit is fully pressurized and oil passes through an oil filter.
- The trochoidal type oil pump is chain-driven by the crankshaft.
- This engine has an oil return structure in which the oil force-fed to the upper cylinder head returns to the oil pan through the cylinder block and chain cover.
- The oil filter is attached downward from the crankcase to improve serviceability.
- Along with the adoption of the VVT-i system, the cylinder head is provided with a VVT-i controller and a camshaft timing oil control valve. This system is operated by the engine oil.
- The water-cooled oil cooler has been installed between the crank case and the oil filter.



258AE111

► Lubrication Circuit ◀



258AE112

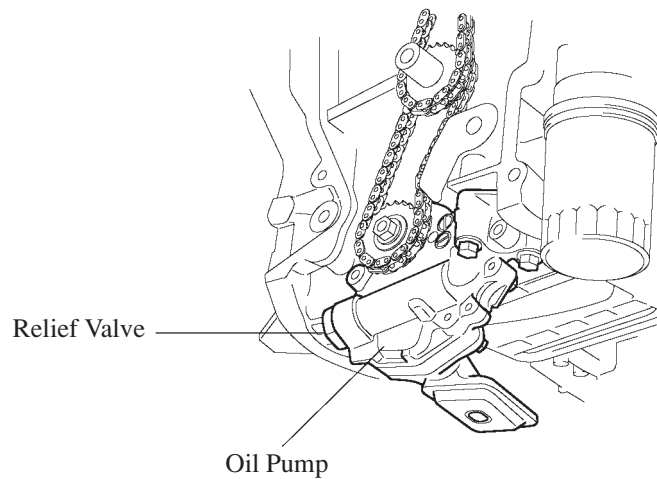
► Oil Capacity ◀

liters (US qts, Imp. qts)

Dry	5.0 (5.3, 4.4)
with Oil Filter	4.3 (4.5, 3.8)
without Oil Filter	4.1 (4.3, 3.6)

2) Oil Pump

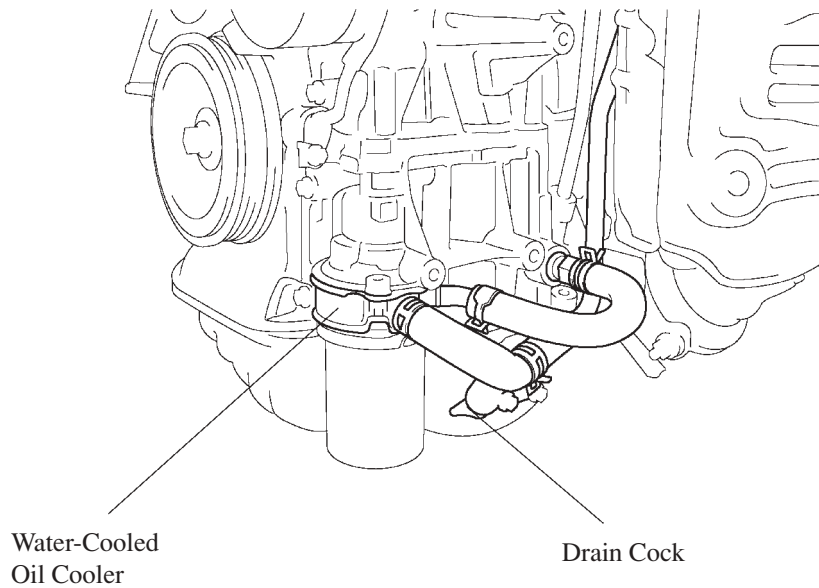
- The trochoidal type oil pump is chain-driven by the crankshaft, and fits compactly inside the timing chain cover.
- Friction is reduced by means of 2 relief holes in the internal relief system.



185EG27

3) Oil Cooler

A water-cooled oil cooler has been installed between the crank case and the oil filter. To improve serviceability, a drain cock for engine coolant is also included.



181EG30