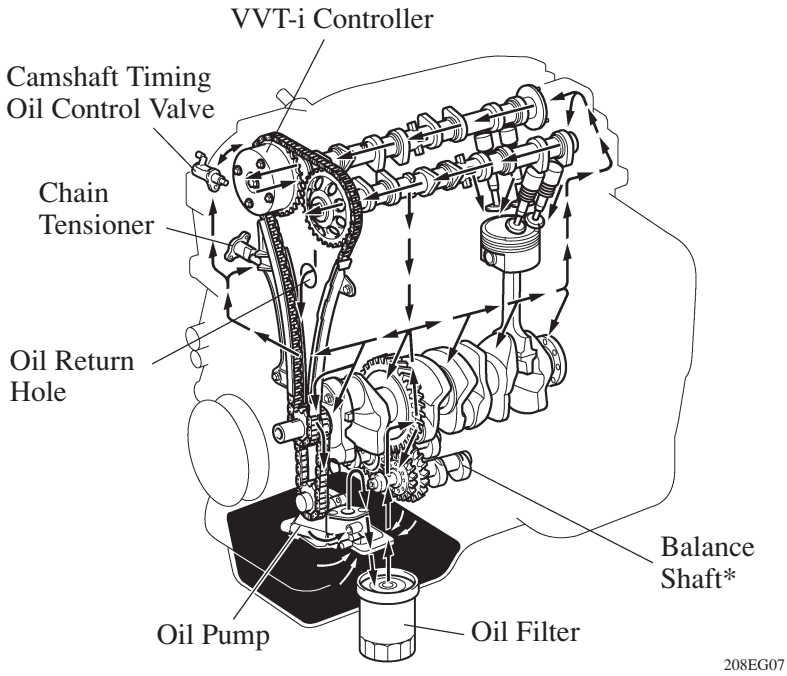
## ■LUBRICATION SYSTEM

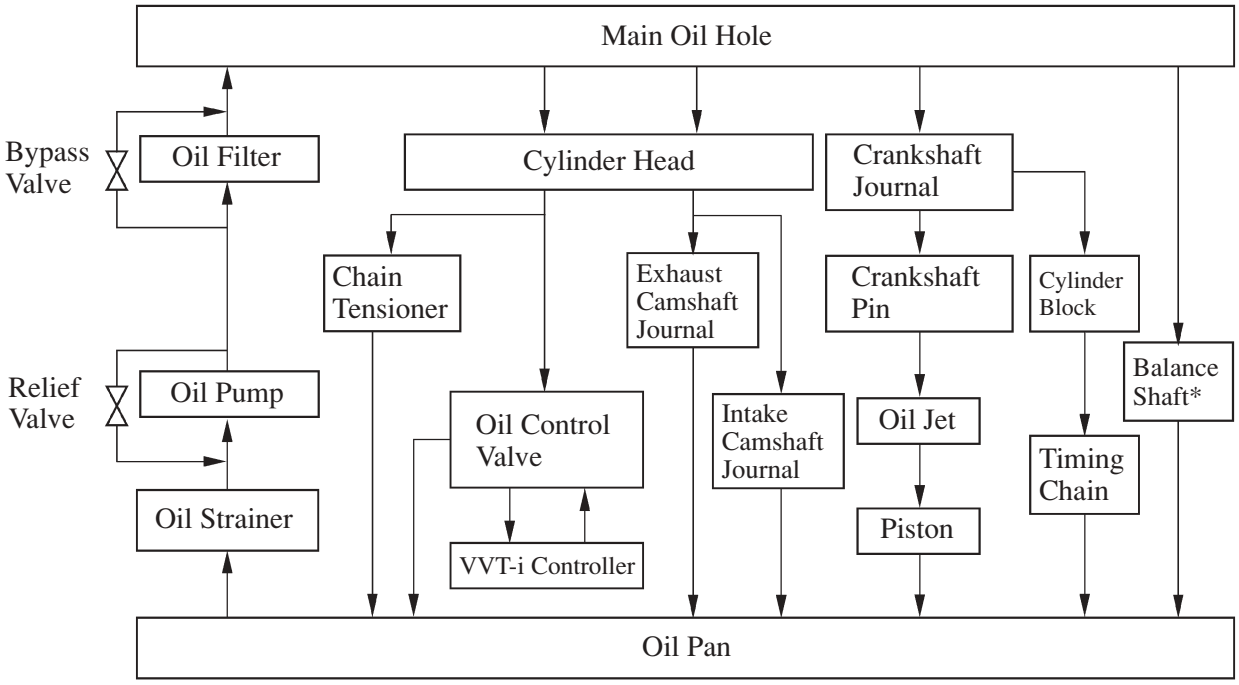
### 1. General

- The lubrication circuit is fully pressurized and oil passes through an oil filter.
- The trochoid gear type oil pump is chain-driven by the crankshaft.
- 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.






**▶ Oil Circuit ◀**



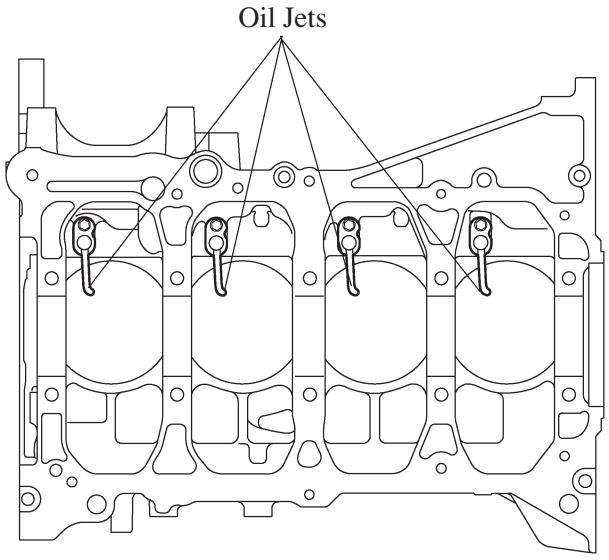

*: 2AZ-FE Engine Model

**▶ Oil Capacity ◀** Liters (US qts, Imp. qts)

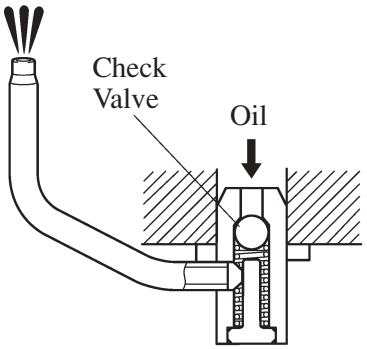
| Engine Type | 1AZ-FE | 2AZ-FE |
|---|---|---|
| Dry | 4.9 (5.2, 4.3) | 5.0 (5.3, 4.4) |
| with Oil Filter | 4.2 (4.4, 3.7) | 4.3 (4.5, 3.8) |
| without Oil Filter | 4.0 (4.2, 3.5) | 4.1 (3.8, 3.1) |

## 2. Piston Oil Jet (For 2AZ-FE Engine)

- Piston oil jets for cooling and lubricating the pistons are used in the cylinder block.
- These oil jets contain a check valve to prevent oil from being fed when the oil pressure is low. This prevents the overall oil pressure in the engine from dropping.




**Bottom Side View**




**Oil Jet Cross Section**

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