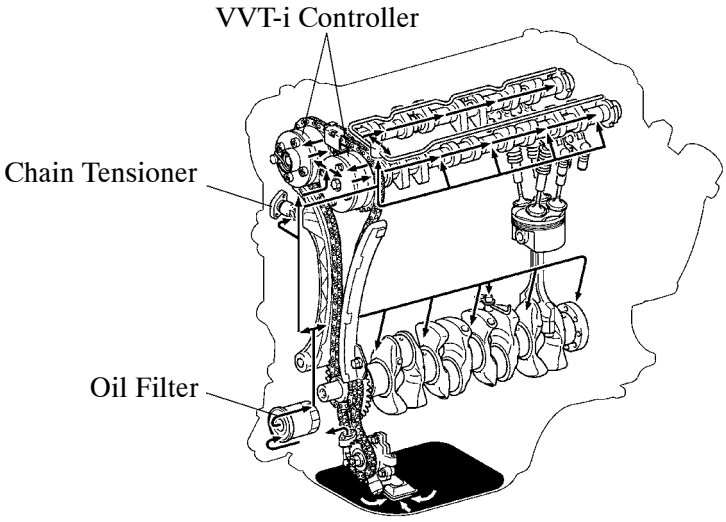
■LUBRICATION SYSTEM

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 2ZR-FE engine has an oil return system in which the oil is force-fed to the upper cylinder head and returns to the oil pan through the oil return hole in the cylinder head.
- The 2ZR-FE engine uses the Dual VVT-i system. This system operated by the engine oil.

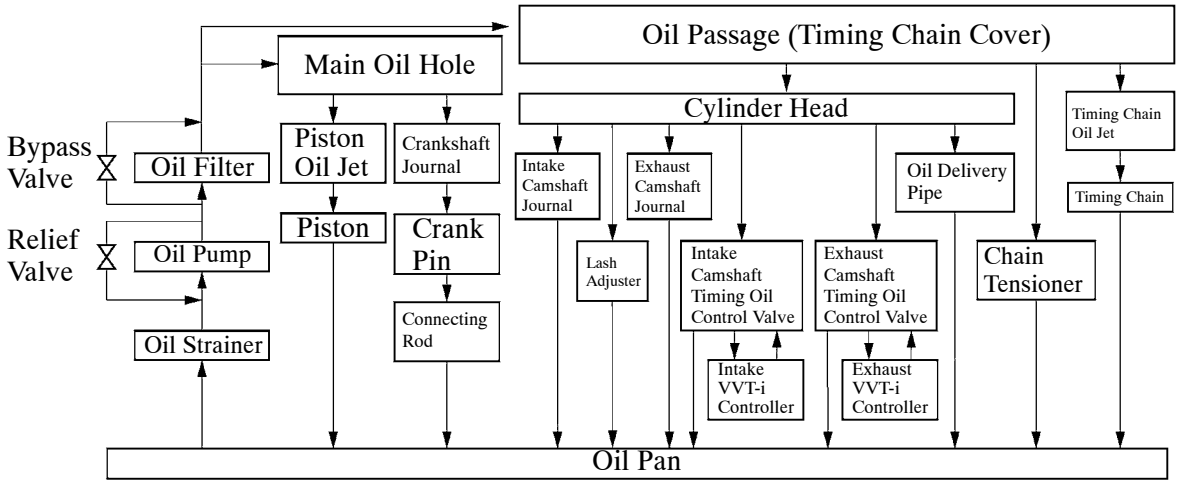


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▶ Oil Capacity ◀

Dry	4.7 liters (5.0 US qts, 4.1 Imp. qts)
With Oil Filter	4.2 liters (4.4 US qts, 3.7 Imp. qts)
Without Oil Filter	3.9 liters (4.1 US qts, 3.4 Imp. qts)

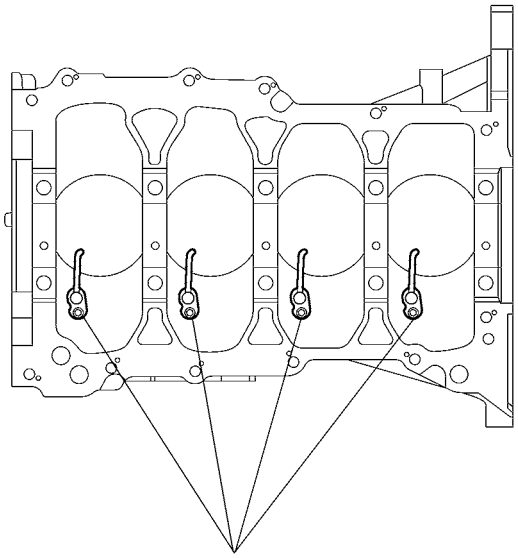
▶ Oil Circuit ◀



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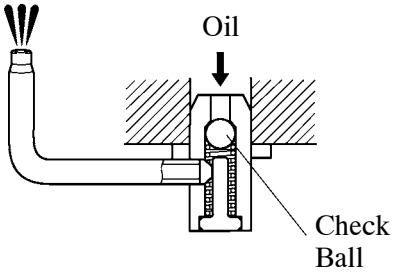
2. Piston Oil Jet

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



Piston Oil Jets

Bottom Side View



Oil Jet Cross Section

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