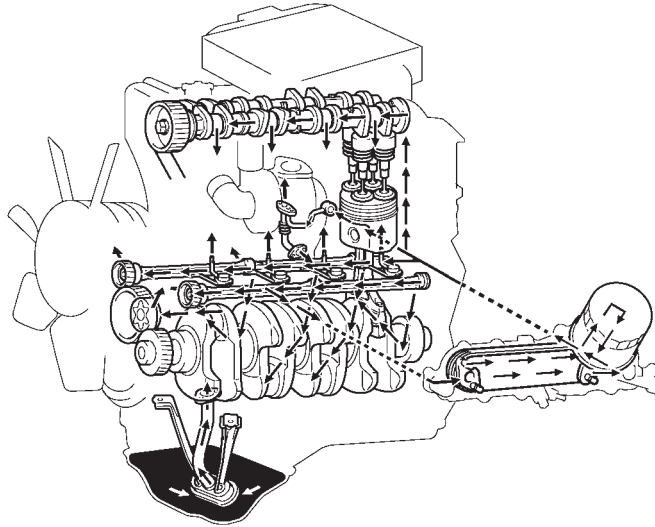


■ LUBRICATION SYSTEM

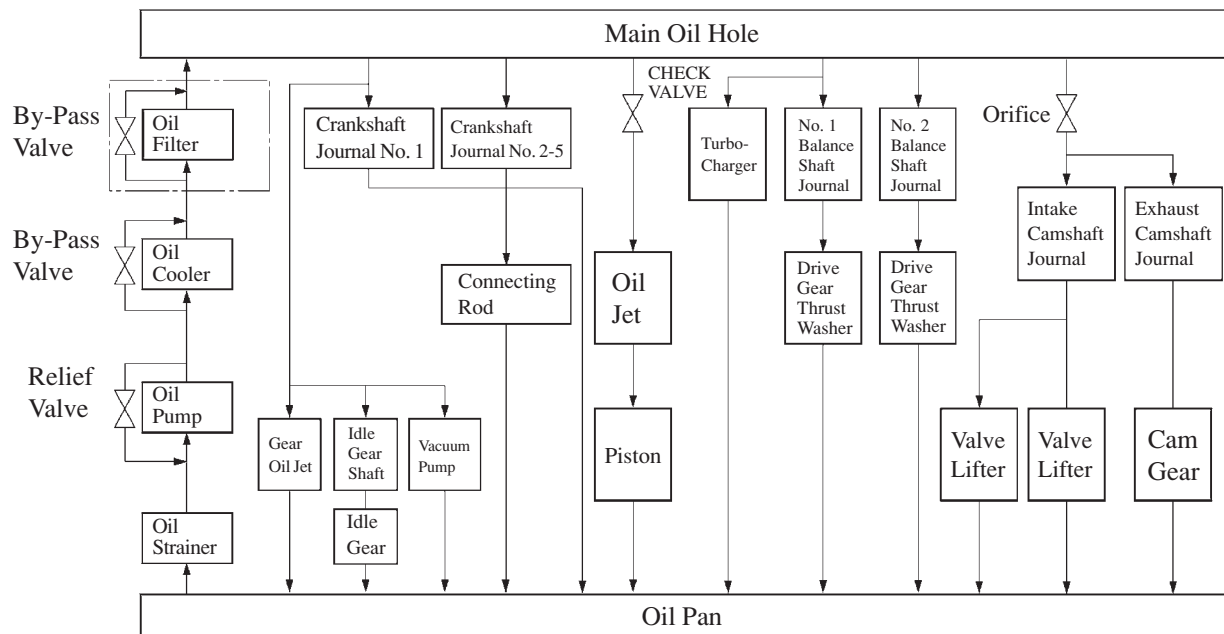
1. General

- The lubrication circuit is fully pressurized and all oil passes through an oil cooler and oil filter.
- A trochoid oil pump driven by a gear engaged with the crankshaft is used.
- A water-cooled type engine oil cooler is enclosed in the cylinder block.
- Piston oil jets that lubricate and cool the piston are provided.

► 1KD-FTV Engine ◀

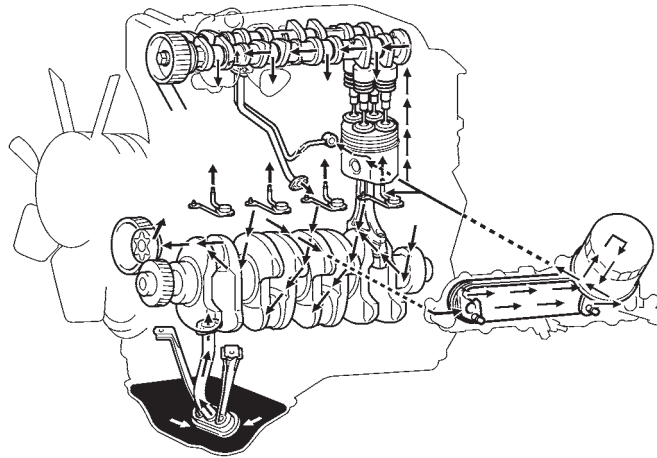


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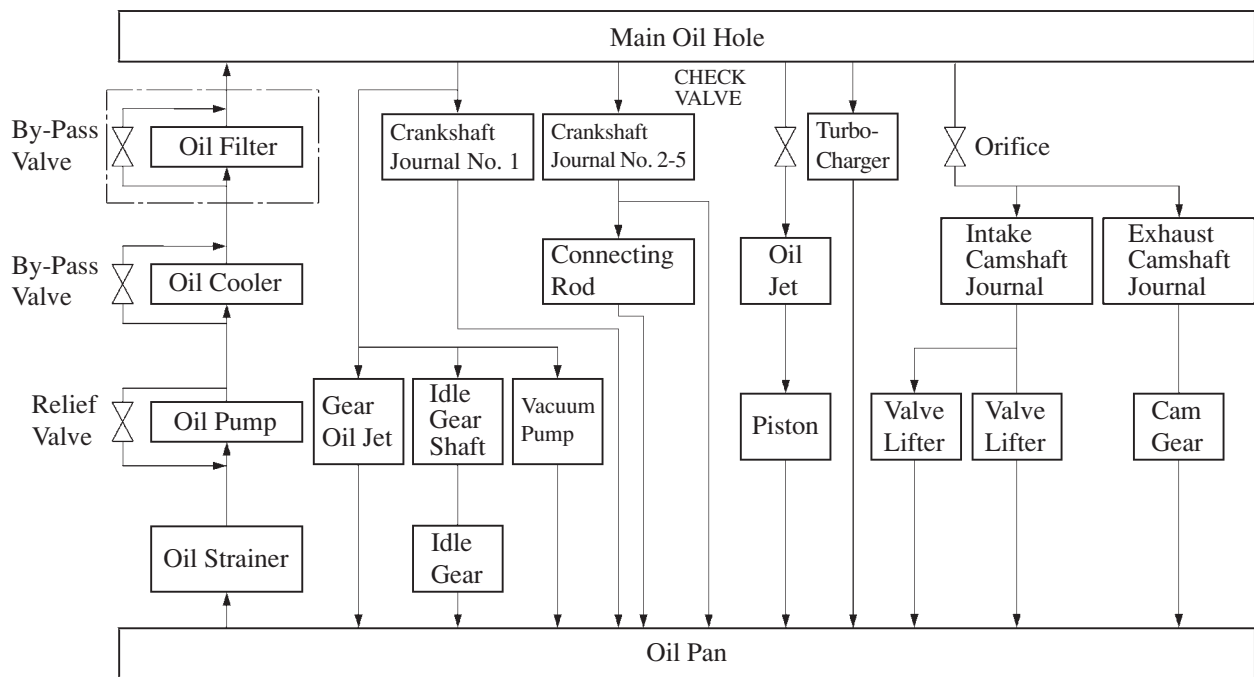


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► 2KD-FTV Engine ◀



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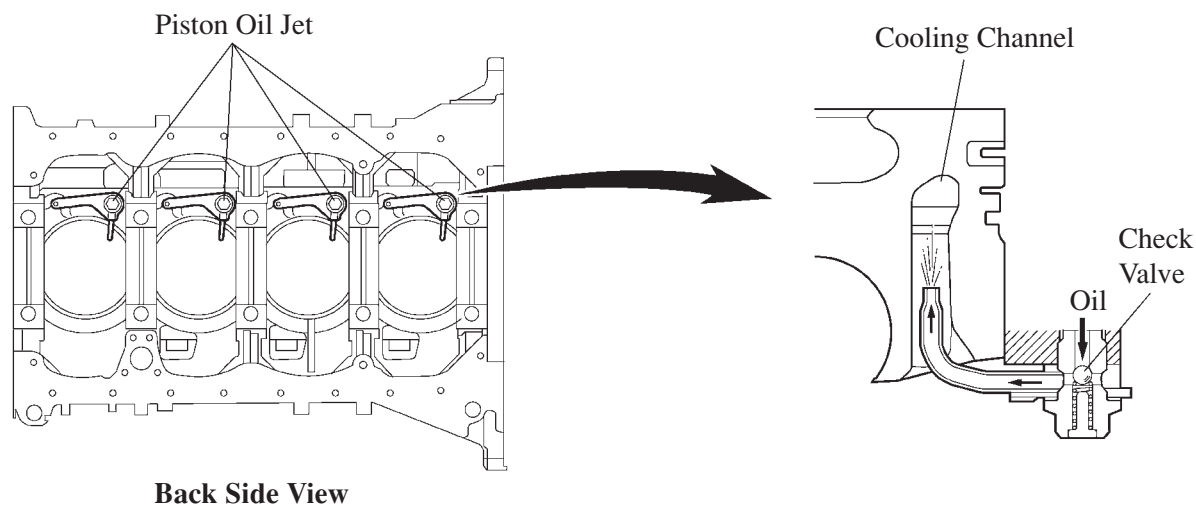
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► Oil Capacity ◀

Engine Type		● 1KD-FTV	● 2KD-FTV ● 2KD-FTV High Version
Dry	liters (US qts, Imp. qts.)	7.4 (7.8, 6.5)	
With oil filter	liters (US qts, Imp. qts.)	6.9 (7.3, 6.1)	
Without oil filter	liters (US qts, Imp. qts.)	6.6 (7.0, 5.8)	

2. Piston Oil Jet

- Piston oil jets are provided at the bottom of the cylinder block to spray oil to the piston's cooling channel, thus further cooling and lubricating the piston.
- 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.



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