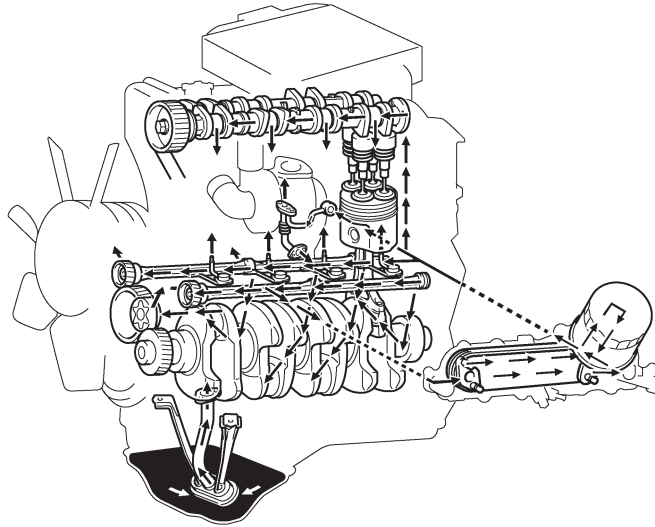


## ■ LUBRICATION SYSTEM

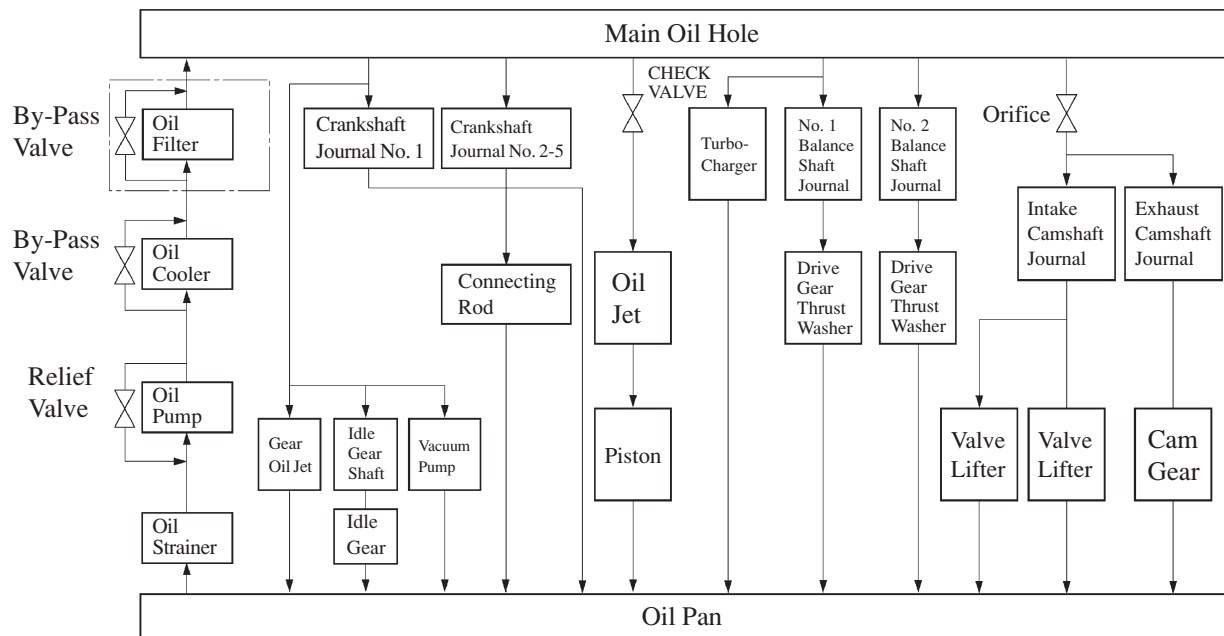
### 1. General

- 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 ◀

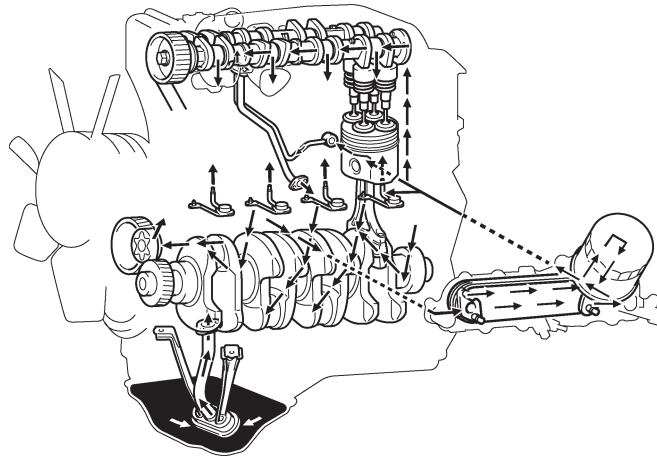


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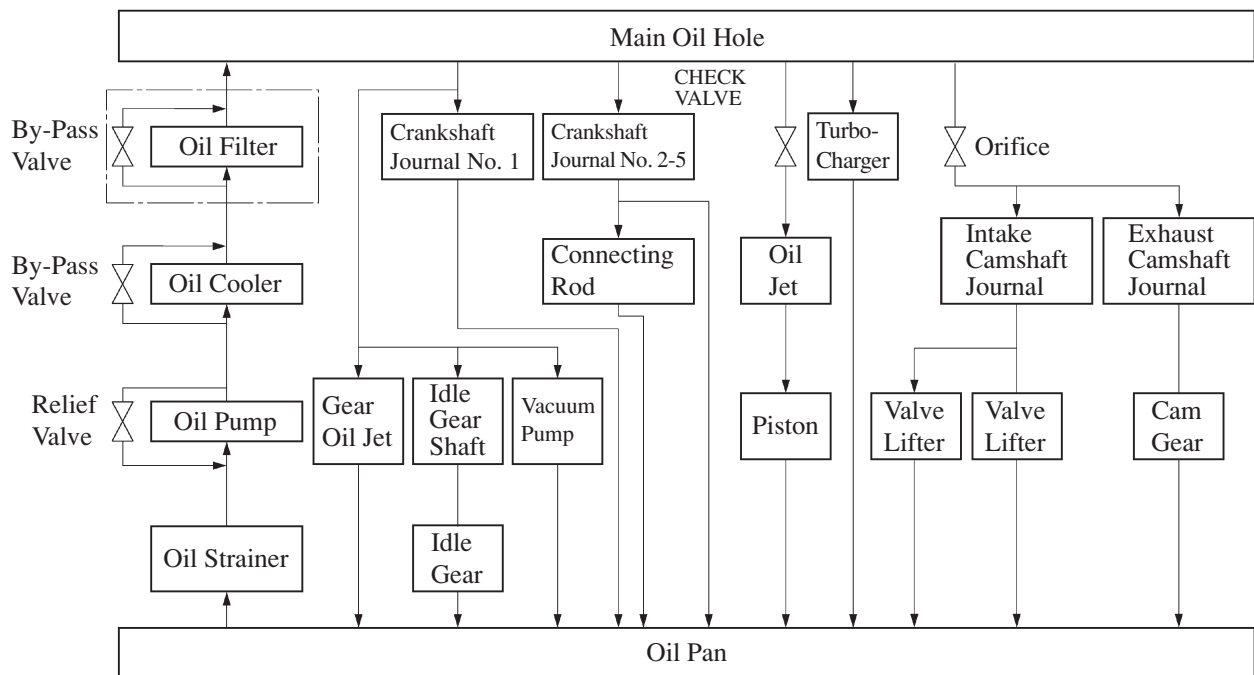


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## ► 2KD-FTV Engine ◀



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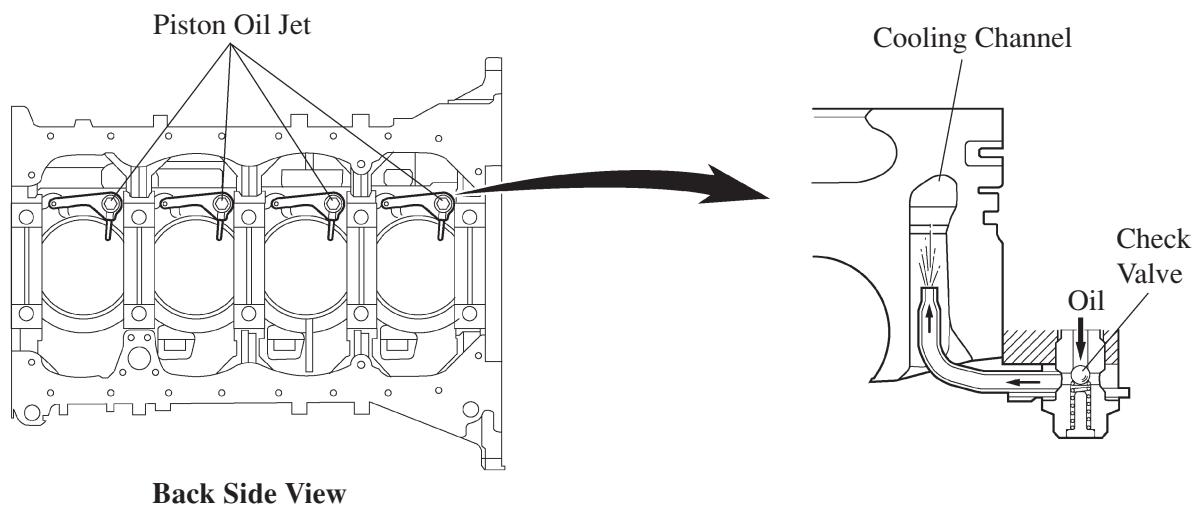
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## ► Oil Capacity ◀

| Engine Type        |                            | ● 1KD-FTV      | ● 2KD-FTV<br>● 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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