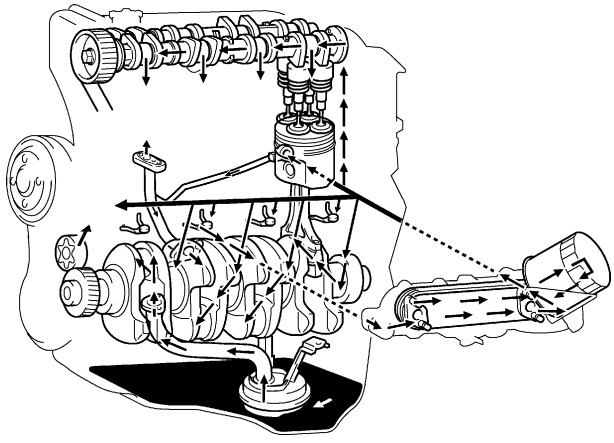
## ■LUBRICATION SYSTEM

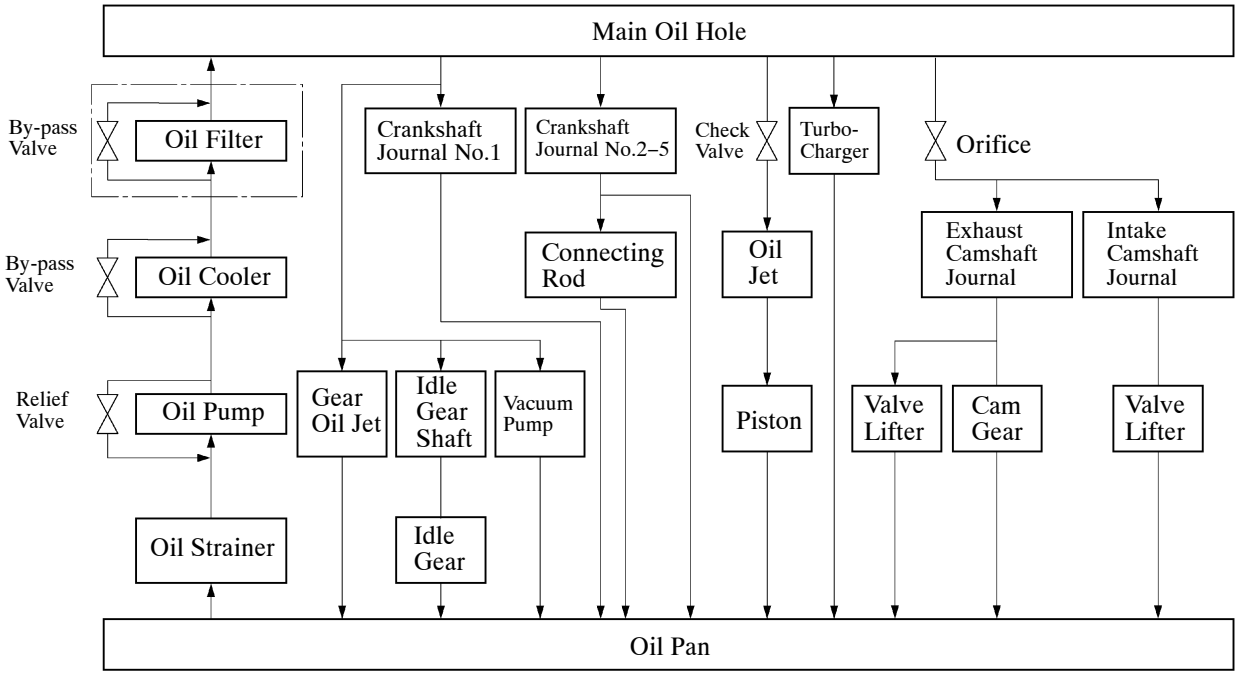
### 1. General

- 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.



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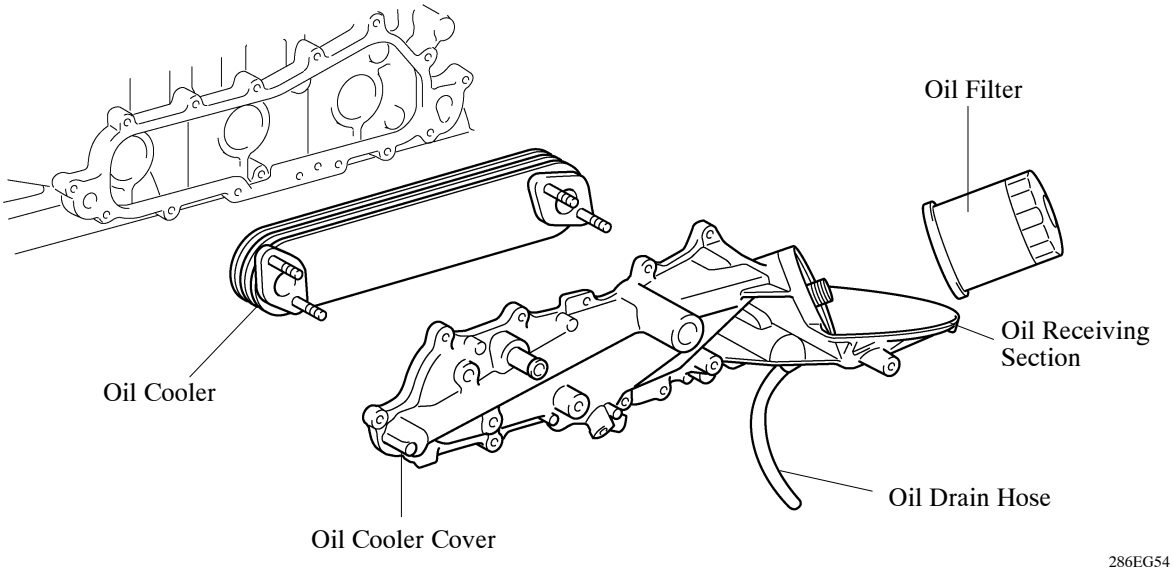

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**▶ Oil Capacity ◀**

| | liters (US qts, Imp. qts.) |
|---|---|
| Dry | 7.2 (7.6, 6.3) |
| With oil filter | 6.5 (6.9, 5.7) |
| Without oil filter | 6.3 (6.7, 5.5) |

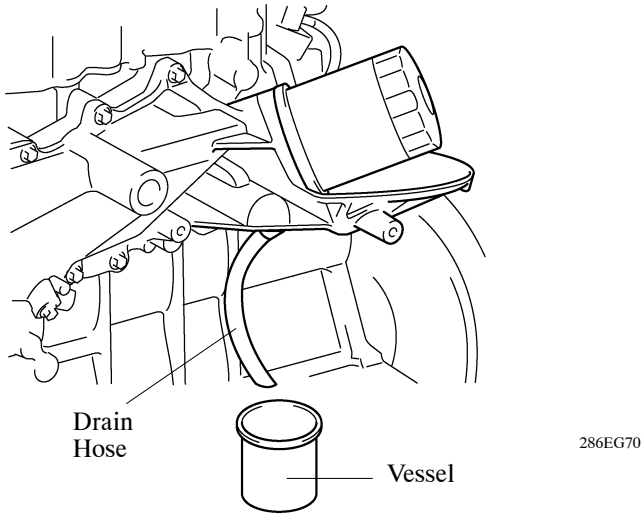
## 2. Oil Filter and Oil Cooler

- The oil filter is mounted on an oil cooler cover. Therefore, the oil filter can be replaced easily.
- During oil filter replacement, the filter is removed upward. Therefore, an oil receiving section and oil drain hose are provided at the oil cooler cover.
- The water-cooled oil cooler is enclosed in the cylinder block.



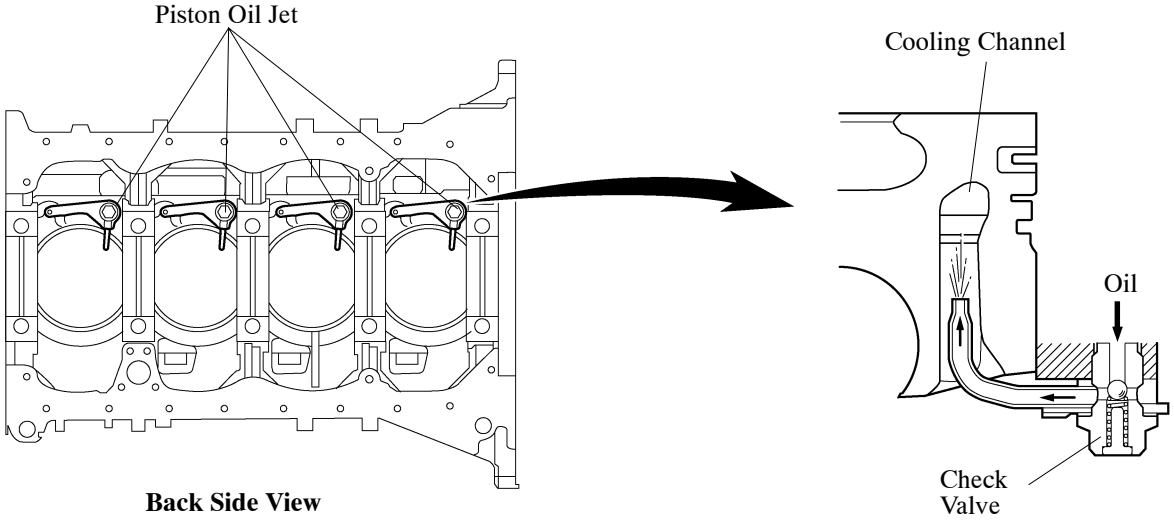

**Service Tip**

Before removing the oil filter, prepare to catch the oil that will be discharged from the oil cooler cover. Use a vessel to catch the engine oil. For details, refer to the Hiace Repair Manual (Pub. No. RM1171E).



## 3. Piston Oil Jet

- Piston oil jets are provided at the bottom of the cylinder block to spray oil to the pistonfs 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.




**Back Side View**

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