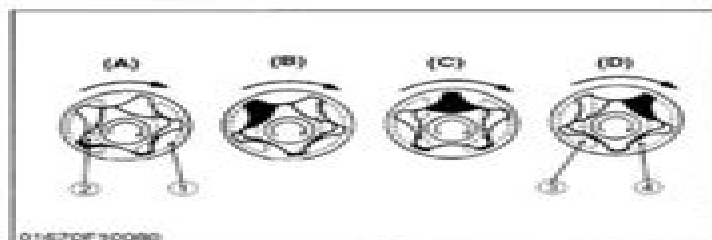


**(1) Oil Pump**

The oil pump is a trochoid pump.

Inside the pump body, the 4 lobe inner rotor (2) is eccentrically engaged with the 5 lobe outer rotor (1). The inner rotor is driven by the crankshaft, which in turn rotates the outer rotor.

When the inner rotor rotates, the outer rotor also rotates in the same direction. The two rotors have differences in lobe number and center, which generates space between lobes as shown in the figure.

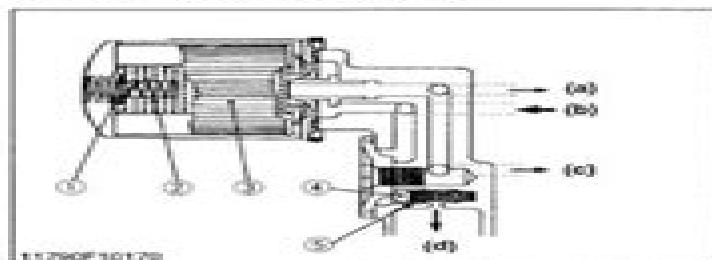
At position (A), there is little space between lobes in the inlet port. As the rotor rotates towards position (B), the space between the lobes becomes larger, creating a negative pressure which sucks in oil.

Outside the inlet port, as shown in position (C), the space between the lobes becomes gradually smaller, and oil pressure increases. At position (D), oil is discharged from the outlet port.

- (1) Outer Rotor  
(2) Inner Rotor

- (3) Inlet Port  
(4) Outlet Port

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**(2) Oil Filter and Relief Valve**

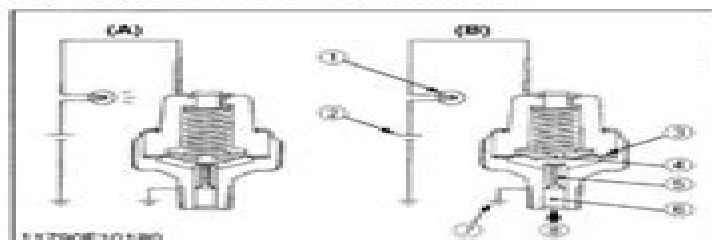
The lubricating oil force-fed by the pump is filtered by the filter cartridge, passing through the filter element from the outside to the inside. When the filter element accumulates dirt and the pressure difference between the inside and outside rises more than 98 kPa (1.0 kgf/cm<sup>2</sup>, 14 psi), the bypass valve (1) opens to allow the oil to flow from the inlet line to outlet line, bypassing the filter element.

The relief valve (4) in the inlet line allows oil to prevent damage to the lubricating system, when the oil pressure rises more than 441 kPa (4.5 kgf/cm<sup>2</sup>, 64 psi).

- (1) Bypass Valve  
(2) Bypass Adjusting Spring  
(3) Filter Element  
(4) Relief Valve Ball  
(5) Relief Adjusting Spring

- (a) To Idle Gear, Camshaft and Rocker Arm  
(b) From Oil Pump  
(c) To Crankshaft Journal and Crankpin  
(d) Drain of Relief Valve

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**(3) Engine Oil Pressure Switch**

The oil pressure switch is installed on the cylinder block and leads to the oil passage of the lubricating oil.

When the oil pressure falls below the specified value, the contacts of the oil pressure switch closes to turn on the warning lamp (1).

- (1) Warning Lamp  
(2) Battery  
(3) Rubber Gasket  
(4) Contact Rivet  
(5) Contact  
(6) Oil Passage  
(7) Cylinder Block  
(8) Oil

- (A) At Lower Oil Pressure  
(49 kPa, 0.5 kgf/cm<sup>2</sup>, 7 psi or less)  
(B) At Proper Oil Pressure

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# Kubota Service Manual L3000

**Katrin Zwirglmaier**



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