



Fig. G-25 Oil Flow in Neutral

3. Oil Flow of Hydraulic System

Neutral

In neutral position, the variable displacement pump does not supply oil to the fixed displacement motor, and there is no oil flow between the pump and motor.

The charge pump always revolves in combination with the input shaft to draw oil from the transmission case and feeds through check valves to the main oil circuit. The charge oil aids smooth operation of the pump and motor. The rest of charge oil is passed through the charge relief valve to the case.

Then oil passes from the case through the cooler to the main hydraulic pump, then returns through the hydraulic control valve and hydraulic cylinder to the transmission case (Fig. G-25).

The check valves are open in neutral position, the neutral valves are also open and drain some of the oil in the main oil circuit into the case. The high pressure relief valve is closed.

Reference

- P1 ... Port to check high pressure (forward)
- P2 ... Port to check high pressure (reverse)
- P3 ... Port to check charge pressure
- P4 ... Port to check vacuum
- P5 ... Port to check case pressure