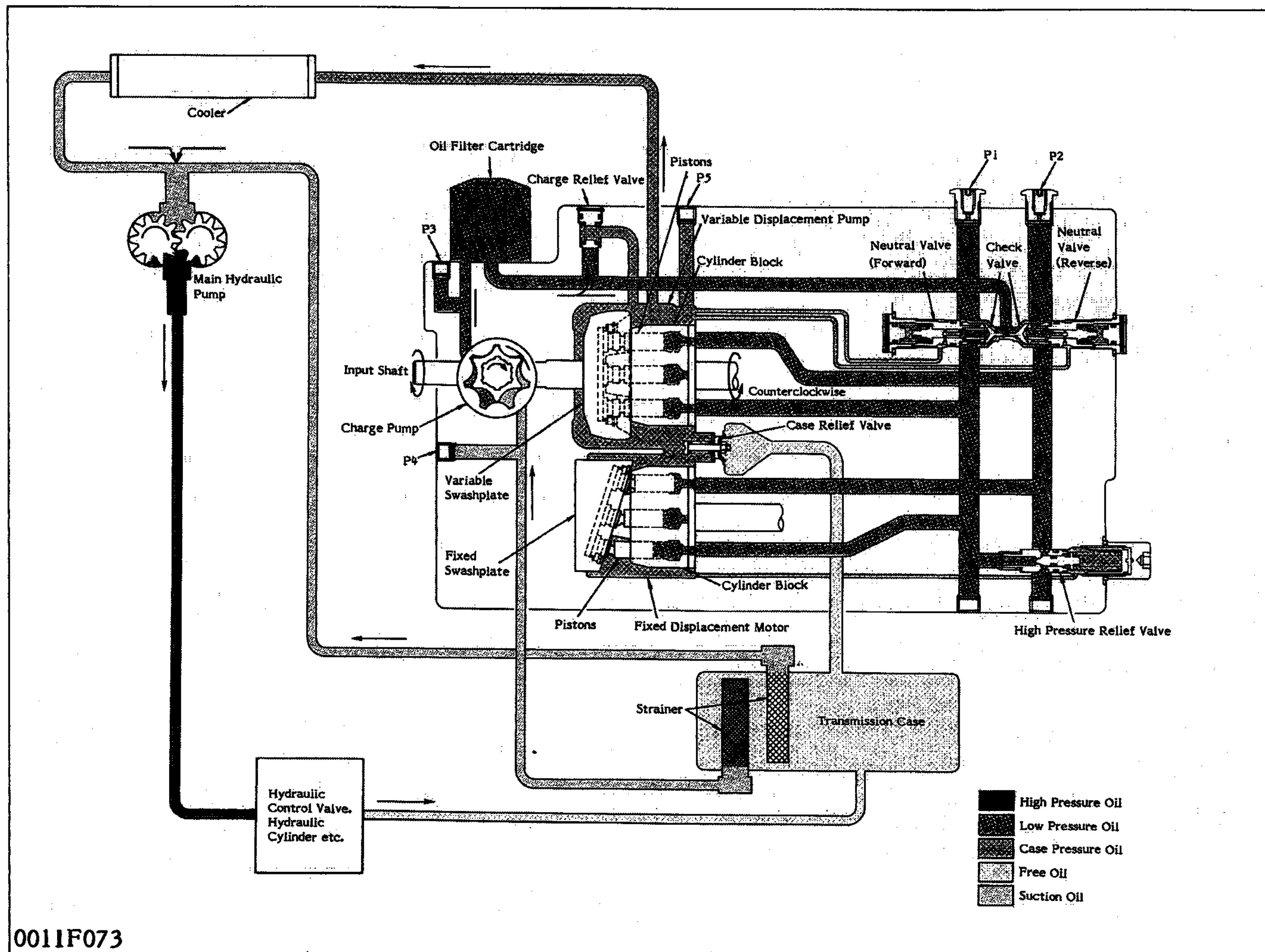


(4) Oil Flow and Valves

P1: Port for checking high pressure (forward)
 P2: Port for checking high pressure (reverse)
 P3: Port for checking case pressure

P4: Port for checking vacuum
 P5: Port for checking case pressure

The pump and motor are joined in a closed hydraulic loop and most of oil circulates within the main oil circuit. A little oil lubricates and oozes out from the clearance between the moving parts to the case. Then oil in the main oil circuit of the hydrostatic transmission needs to be supplied a want. So all of oil fed from the main hydraulic pump flows to the hydrostatic transmission for charging.

Only return oil from the hydraulic cylinder drops to the transmission case. The charge oil aids smooth operation of piston pump and motor. The rest of the oil passes through the charge relief valve into the case. Then the oil passes to the main hydraulic pump through a cooler.