

[Caterpillar 793D Off-Highway Truck Factory Service Pdf Manual](#)

Torque converter hydraulic filter (1) is fastened to the side of the hydraulic tank. Oil from the torque converter sump goes to the gear pump for the torque converter and the transmission. The torque converter charge pump section sends oil to the torque converter hydraulic filter.



Oil flows through inlet line (2). The oil fills the space between the inside of housing (5), screen assembly (8), and elements (7). During normal operation, the oil goes through elements (7) and through outlet line (3). The oil then goes to the torque converter.

Screen assembly (8) and elements (7) stop any debris that is in the oil. If the filter elements become full of debris, the restriction to the flow of oil causes a pressure increase inside the filter. The pressure oil causes bypass valve (6) to move against the force of spring (4). The oil then flows past the open bypass valve to the remainder of the hydraulic system. When the oil does not go through the filter elements, the debris in the oil will cause damage to other components in the hydraulic system.

Correct maintenance must be used to be certain that elements (7) do not become full of debris. Debris in elements (7) will stop the flow of clean oil to the hydraulic system.