

Charge Pump Flow Test



T116990B-UN: Flow Meter Shown Installed On Filter Inlet

-: Specifications

SPECIFICATIONS	
Transmission Oil Temperature	57—66°C 135—150°F
Engine Speed	1800 rpm
Typical Combined Flow	53—61 L/min(f) 14—16 gpm
Minimum Combined Flow	49 L/min(f) 13 gpm
Typical Single Flow	26—30 L/min(f) 7—8 gpm
Minimum Single Flow	25 L/min(f) 6.5 gpm

-: Service Equipment and Tools

SERVICE EQUIPMENT AND TOOLS
JT07148-2 Flow Block
JT03448 Test Hose (2 used)

This procedure is used to determine hydrostatic pump flow and to isolate front and rear pump flow, if necessary. Charge pressures **must** be to specification, perform Neutral Charge Relief and Operating Charge Relief Pressure Test (Group 9026-25.), before doing this test.

Combined Pump Flow

1. Open left rear access door.

2. IMPORTANT:

Damage to charge pumps will result if flow meter valve is not fully open. Flow control valve on flow meter **must** be fully open.

Connect flow meter in line at the hydrostatic filter housing inlet as shown. Open flow meter valve so it does not restrict pump oil flow.

3. Heat oil to specification. See [Transmission Oil Warmup Procedure](#) . (Group 9026-25.)

Item	Measurement	Specification
Transmission Oil Temperature		57—66°C 135—150°F

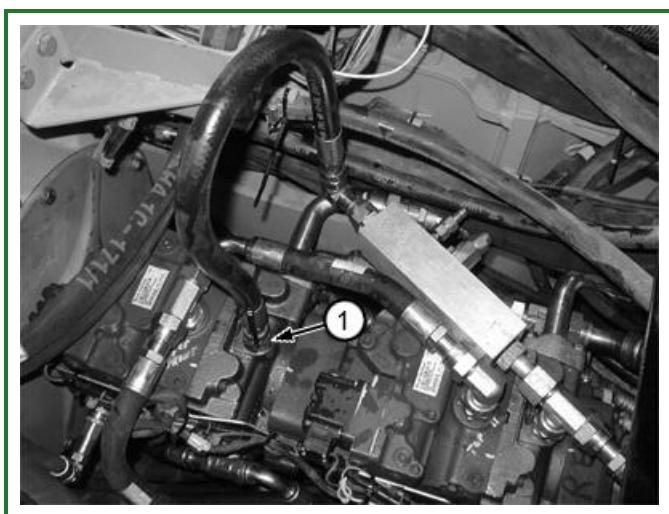
4. With park lock lever UP, run engine at specified RPM. Record flow meter reading. This is total flow of both pumps.

Item	Measurement	Specification	Item	Measurement	Specification
Engine Speed		1800 rpm	Typical	Combined Flow	53—61 L/min(f) 14—16 gpm
			Minimum	Combined Flow	49 L/min(f) 13 gpm

5. If flow is below minimum specification for combined flow, the front pump flow must be checked in order to determine which pump is below specification.

6. Remove test equipment.

Single Charge Pump Flow



T157979B-UN: Front Pump Flow Meter Installation Shown

LEGEND:

1 - Front Pump Outlet Fitting