

## Hydraulic Pump Flow Test

### -: Specifications

SPECIFICATIONS	
Hydraulic Oil Temperature	45—55°C 110—130°F
Engine Speed	Fast Idle
Auto-Idle Button Position	OFF
Power Mode Button Position	PWR (power) Mode
Air Conditioner Switch Position	OFF
Pump 3 (loaded) Pressure	20.6 MPa 206 bar 2988 psi

### -: Service Equipment and Tools

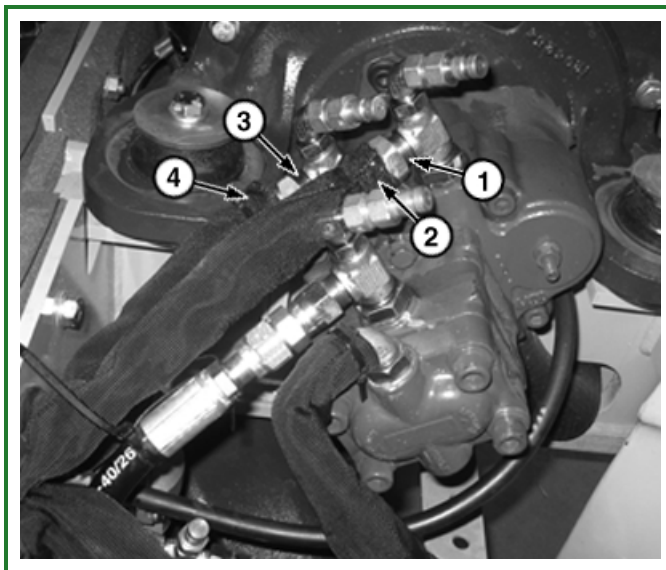
SERVICE EQUIPMENT AND TOOLS
Flowmeter
JT05800 Digital Thermometer

#### NOTE:

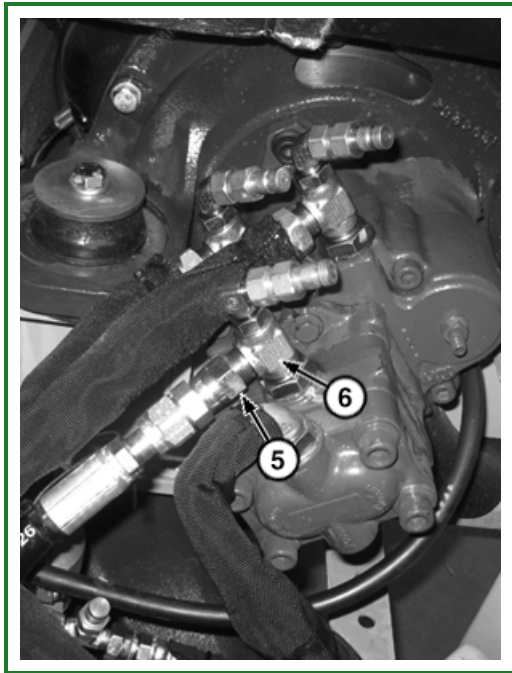
*Pumps 1 and 2 are tested together using a single flowmeter.*

Test is used to determine hydraulic pump condition and should be performed only if a comparison of actual machine cycle times to specified cycle times indicates low pump flow.

1.



TX1130055A-UN: Hydraulic Pump 1 and 2 Flow Test Connection Locations



**TX1238532A-UN: Hydraulic Pump 3 Connection Locations**

**LEGEND:**

- 1 - Pump 1 Fitting
- 2 - Pump 1 Hose
- 3 - Pump 2 Fitting
- 4 - Pump 2 Hose
- 5 - Pump 3 Hose
- 6 - Pump 3 Fitting

Release hydraulic oil tank pressure by loosening hydraulic oil tank cap. [See Hydraulic Oil Tank Pressure Release Procedure](#) . (Group 9025-25.)

2. Apply vacuum to hydraulic oil tank. [See Apply Vacuum to Hydraulic Oil Tank](#) . (Group 3360.)
3. Disconnect pump 1 hose (2) and pump 2 hose (4).
4. Connect flowmeter inlet to pump 1 fitting (1) and pump 2 fitting (3) using a tee fitting.
5. Connect flowmeter outlet to pump 1 hose and pump 2 hose using a tee fitting.
6. Disconnect pump 3 hose (5).
7. Connect flowmeter inlet to pump 3 fitting (6).
8. Connect flowmeter outlet to pump 3 hose.
9. Remove vacuum from hydraulic oil tank.
10. Install JT05800 Digital Thermometer to hydraulic oil cooler supply line to monitor hydraulic oil temperature. [See JT05800 Digital Thermometer Installation](#) . (Group 9025-25.)
11. IMPORTANT:

Prevent machine damage. Flowmeter loading valve must be fully open before starting machine.

Open flowmeter loading valves fully.