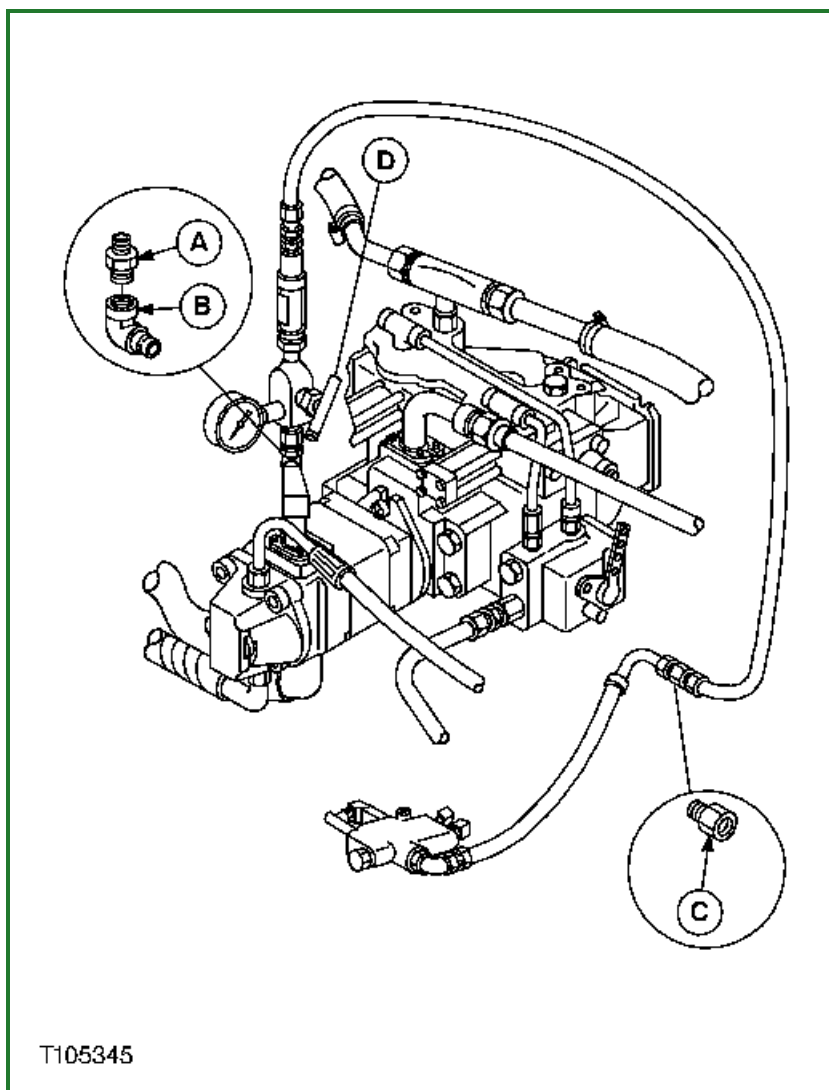


## Steering And Main Hydraulic Pump Flow Test



T105345-19: Steering & Main Hydraulic Pump Flow

### -: Specifications

SPECIFICATIONS	
Engine Speed	2000 ± 10 rpm
Oil Temperature	66 ± 6°C (150 ± 10°F)
Typical New Pump Flow	64.4 L/min (17 gpm)
Pump Minimum Flow	56.8 L/min (15.0 gpm)
Steering and Main Hydraulic Pump Flow Test Pressure	13 790 kPa (137.9 bar) (2000 psi)

### -: Essential Tools

ESSENTIAL TOOLS
(3/4-14 x 1/2-14) (Parker No. 3/4 x 1/2 FFS) A-Pipe Nipple
(3/4-14 M x 3/4-14 F) (Parker No. 3/4 CD-S) B-Elbow
(1-1/16-12 M x 3/4-14 F) (Parker No. 12 GTX-S) C-Connector

### -: Service Equipment And Tools

**SERVICE EQUIPMENT AND TOOLS**

Flowmeter with Pressure Gauge

Tachometer/Temperature Reader

Use this test to determine pump efficiency. Perform test when machine will not pass pump performance check in Operational Checkout Procedure.

1. Make test connections as shown.

**NOTE:**

*Use tie down straps to hold flowmeter return line in hydraulic reservoir filler neck when running flow test.*

2. Install tachometer/temperature reader. See [Tachometer/Temperature Reader Installation Procedure](#) in this group.

3. IMPORTANT:

Before starting engine, check that loading valve (D) of flow meter is open. Pump will be damaged if engine is started with the loading valve closed.

Run engine at test specification.

Item	Measurement	Specification
Engine Speed		2000 ± 10 rpm

4. IMPORTANT:

Check oil temperature as loading valve is being closed. Temperature will rise rapidly as valve is closed.

Close flowmeter loading valve to increase pressure to test specification.

Item	Measurement	Specification
Oil	Temperature	66 ± 6°C (150 ± 10°F)

5. Read pump flow.

Item	Measurement	Specification
Typical New Pump	Flow	64.4 L/min (17 gpm)
Pump	Minimum Flow	56.8 L/min (15.0 gpm)
Steering and Main Hydraulic Pump Flow Test	Pressure	13 790 kPa (137.9 bar) (2000 psi)

6. If flow is low, inspect suction screen. If OK, repair or replace pump.

Go to [Section\\_9025:Group\\_25](#)

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