

TRW Support
800-879-0899

Print Form



Diagnostic Form TRW-900B

Diagnostic Test Literature

It is recommended that PSSA Diagnostic Instructions TRW-900A be used to guide you through the test procedures necessary to complete the following form. You may also find our Steering System Maintenance Guidelines (TRW-800), Chart Your Way to Easy Steering, and the product service manuals to be helpful when attempting to diagnose steering issues.

Dealer / Customer Information

OEM	Volvo	Dealer Code	5416D	R.O.	
Dealership Name	Truck Enterprises Inc				
Address		City	Roanoke		
State/Province	Virginia	ZIP	24019		
Contact Name		Phone Number			
Owner's Name/Company Name					

Vehicle Information

Model	VNL64T	Vin			
Date in Service	07/20/2015	Mileage	94	☒ Miles	☐ Kilometers
Date of Repair	07/24/2015	Vocation	Line Haul	System	Single Gear
Under Warranty	☒ Yes ☐ No	Tire Type	Standard Steer Tires	☒ System Cooler	☐ No System Cooler

Diagnostic Information

Symptom

Symptom Verified by testing Technician ☒ Yes ☐ No

In the following text box please provide a description of the issue. Include customer complaint, when the issue occurs, at what system temperature does the issue occur, etc.

Description of Issue

Pump and Pump Test / information

Pump Part Number 21745603

Engine idle RPM 600

System Temperature 185

☐ C ☒ F

Table A

Flow GPM at Idle

Load Valve Open 4.5

500 PSI 3.75

1000 PSI 3.50

1500 PSI 3.25

Flow GPM at 1500 RPM

Load Valve Open 4.25

500 PSI 4.25

1000 PSI 4.25

1500 PSI 4.25

Table B

Pump Flow Control Response

Instant Return

Initial Flow (GPM) Idle 4.0

GPM @ Idle 4.0

☒ Yes ☐ No

GPM @ 1000 RPM 4.0

☒ Yes ☐ No

GPM @ 1500 RPM 4.25

☒ Yes ☐ No

Table C

Pump Relief Pressure - Load Valve Closed

PSI @ Idle 2600

PSI @ 1000 RPM 2700

PSI @ 1500 RPM 2700

Gear and Gear Test / information

Gear Part Number THP60004A

Assist Gear/Cylinder Part Number N/A

Table D Test @ 1500 RPM

Pump Relief Pressure - Load Valve Closed

Relief Pressure (PSI) 2700

Pressure While Turning

Poppet Trip Pressure

Left (PSI) 1500

Left (PSI) 750

Right (PSI) 1350

Right (PSI) 1000

Table E

Flow

Pressure

Left (GPM) 0

Left (PSI) 2600

Right (GPM) 0

Right (PSI) 2600

Additional information

- ☒ Checked Steering Linkage
- ☒ Checked Sector Shaft Adjustment
- ☒ Inspected Intermediate Column
- ☒ Inspected Fluid Hoses for Damage/Wear
- ☒ Inspected Fluid Hoses for Proper Routing
- ☒ Inspected Fluid (burned, aeration, debris)
- ☒ Noted description of issue on page 1