

Figure 1 -- Power Steering Troubleshooting Report



POWER STEERING TROUBLESHOOTING REPORT

Mack Trucks, Inc.
Volvo Trucks North America, Inc.

Dealer Code		Dealer Name		Customer Name			
Chassis Model	Serial Number	Delivery Date		Test Date		Miles	Engine Hours
		Month	Year	Month	Year		
Description of Complaint				Steering Gear Model		Original Gear Serial Number	
				Original Replacement			
				Pump Model		Original Pump Serial Number	
				Original Replacement			
				Model & Serial Number of Assist Cylinder/Slave Gear			
				Reservoir Location		Capacity	Fluid Used
Prior Gear Failure?		Application					
☐ Yes ☐ No		(Check One)		☐ General Freight ☐ Dump ☐ Tractor ☐ Tanker			
				☐ Off-Highway Only ☐ Platform ☐ In-City Only ☐ Other			

TEST DATA

(For complete diagnostic procedures and before testing, see the appropriate service manual and read the steering system component manufacturer's service manuals. Be sure that the wheel stops are properly adjusted before recording any data.)

Oil Temp at Reservoir		Flow at Idle		Flow at Governed RPM		Back Pressure at Idle	
		@ No load		@ No load		Back Pressure at Governed	
Fahrenheit		@ 1000 psi load		@ 1000 psi load		RPM	
Max. Pump Pressure at Idle (Load Valve Closed)				Weight Distribution			
				Chassis Only		Loaded	
Max. Pump Pressure at Governed RPM (Load Valve Closed)				Front Rear		Front Rear	
Static Steering Pressure on Dry Concrete				Steering Input Effort at		Max. Right	
Center to Full Right		Center to Full Left		Steering Wheel -lb.in.		Max. Left	
INTERNAL LEAKAGE - Gear Relief Valve Bypassed if Possible				Relief Plungers Adjuster?		☐ Yes ☐ No	
Right Turn		Left Turn		Max Right Turn		Max Left Turn	
GPM - Max. PSI		GPM - Max. PSI		Ross (TRW) GPM-PSI		Ross (TRW) GPM-PSI	
INTERNAL LEAKAGE with Assist Cylinder/ Slave Gear Isolated				Relief Plungers Adjuster?		☐ Yes ☐ No	
Right Turn		Left Turn		Max Right Turn		Max Left Turn	
GPM - Max. PSI		GPM - Max. PSI		GPM-Max PSI		GPM-Max PSI	

If further problems exist, or if problem is not solved, install a power steering analyzer in a location that permits visual observation while test driving. Record pertinent information, i.e. pressure during max. turn events, flow, temperature, and any other symptoms that may be useful.

Pressure: _____ Flow: _____ Temperature: _____

Describe correction and any additional comments here: _____

Date: _____ Replacement Authorized by Whom? _____

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