POWER STEERING TROUBLESHOOTING REPORT

Mack Trucks, Inc.
Volvo Trucks North America

Dealer Code	Dealer Name	[redacted] Name
2315 K	Camion Louis de Montreal	

Chassis Model	Serial Number	Delivery Date Month	Delivery Date Year	Month	Year	Miles	Engine Hours
VNL	[redacted]	08	2010			125723 KM	2798

Complaint

Steering hard to turn and lock

Steering Gear Model Original	Steering Gear Model Replacement	Original Gear Serial Number

Pump Model Original	Pump Model Replacement	Original Pump Serial Number
21187422		

Model & Serial Number of Assist Cylinder/Slave Gear

Reservoir Location	Capacity	Fluid Used
Front Frame Left		Dextron III

Prior Gear Failure? ☐ Yes ☑ No

Application (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	4 GPM	@ No load	4 GPM	Back Pressure at Governed	
Fahrenheit	@1000 psi load	3 GPM	@1000 psi load	4.5 GPM	RPM	

Max. Pump Pressure at Idle (Load Valve Closed)	Weight Distribution			
2800 PSI	Chassis Only		Loaded	
Max. Pump Pressure at Governed RPM (Load Valve Closed)	**Front**	**Rear**	**Front**	**Rear**
3500 + PSI				

Static Steering Pressure on Dry Concrete				
Center to Full Right	Center to Full Left	Steering Input Effort at		Max. Right	
1200 PSI	1300 PSI	Steering Wheel - lb.in.		Max. Left	

INTERNAL LEAKAGE - Gear Relief Valve Bypassed if Possible		Relief Plungers Adjuster? ☑ Yes ☐ No			
		Max Right Turn		Max Left Turn	
Right Turn GPM - Max. PSI	Left Turn GPM - Max. PSI	Ross (TRW) GPM-PSI		Ross (TRW) GPM-PSI	

INTERNAL LEAKAGE with Assist Cylinder/ Slave Gear Isolated		Relief Plungers Adjuster? ☐ Yes ☐ No			
		Max Right Turn		Max Left Turn	
Right Turn GPM - Max. PSI	Left Turn 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:** 160° F

Describe correction and any additional comments here: _____

Date: _____ **Replacement Authorized by Whom?** _____