

Document Title: Hydraulic oil tank, oil, replace if system is filled with mineral oil or Volvo Biodegradable hydraulic oil 46. If system is filled with other biologically degradable hydraulic oil, replace every 2000 hour.	Function Group: 173	Information Type: Service Information	Date: 2014/8/6 0
Profile: ART, A35F FS (37141) [GB]			

Hydraulic oil tank, oil, replace if system is filled with mineral oil or Volvo Biodegradable hydraulic oil 46. If system is filled with other biologically degradable hydraulic oil, replace every 2000 hour.

This is part of other procedure.

Op nbr

[14360000 Vacuum pump / 24V](#)

! WARNING

Work carefully when changing oil as hot oil can cause severe burns to unprotected skin.

! CAUTION

Maintain greatest possible cleanliness during all work on the hydraulic system.

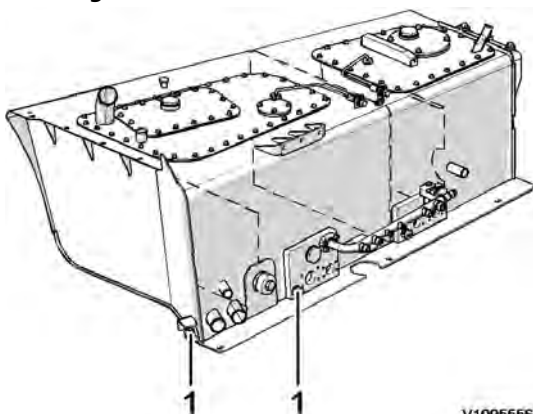
! CAUTION

Take care of filters, oils and liquids in an environmentally safe way.

NOTE!

The machine shall be in lowered position and the engine shall have run at idle, so that the accumulators are drained of oil and pressure. See [191 Service positions](#).

1. Draining



V1095556

Figure 1

1. Drain connections, hydraulic oil tank

Remove the protective covers from the drain connections on the hydraulic oil tank's underside and at the rear end by the wheel.

2. Connect the drain hose to the drain connections.

3. Drain the oil into an oil barrel that holds approx. 262 litres (69.2 US gal).

4. After draining, remove the drain hose and reinstall the protective covers on the drain connections.

5. **Filling.**

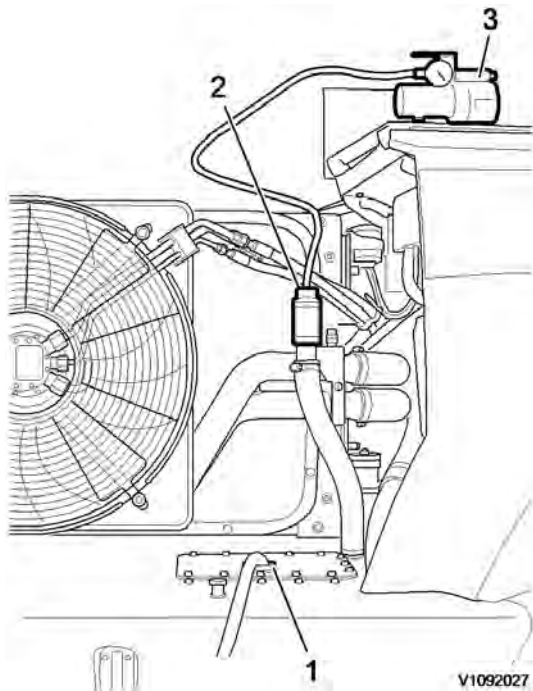


Figure 2

1. Filling
2. Vacuum pump connection to breather filter hose
3. Vacuum pump

Remove the breather filter for the hydraulic oil tank.

NOTE!

To increase the fill rate, connect a vacuum pump.

6. Connect the vacuum pump to the breather filter hose, and plug in the cable in the 24 V socket in the right instrument panel in the cab.

7. Clean around the plug for the filler hole.

NOTE!

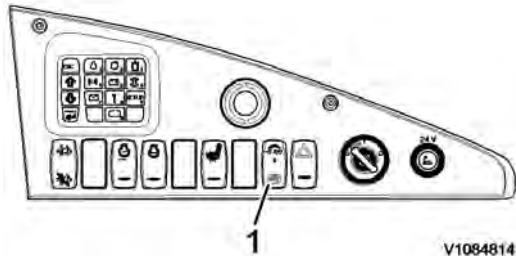
Always fill oil through the filler hole so that the oil is filtered.

8. Remove the plug for the filler hole in the cover.

9. Start the vacuum pump and fill oil, see [160 Lubricants, specifications](#) through the filler hole via the hydraulic oil's return oil filter, volume see [900 Hydraulic system, capacities](#). Fill oil until the level glass shows max. level.

10. Reinstall the plug for the filler hole, to prevent oil from spraying out when the machine is started.

11. Turn off the vacuum pump and remove it from the breather filter hose. Unplug the cable from the instrument panel in the cab.
12. Reinstall the breather filter.
NOTE!
The engine may not be started when the vacuum pump is connected.
13. Start the machine and let it idle for approx. 5 minutes until the fans run at steady rpm.



14.

Figure 3

1. Switch, FS-system

Activate the hydraulic suspension with the switch.

15. Turn off the engine when the machine is in normal position.
16. Top up so that the oil reaches up to 3/4 in the level glass.

Document Title: Hydraulic oil tank, return oil filter, replace, and magnetic rods, clean	Function Group: 173	Information Type: Service Information	Date: 2014/8/6 0
Profile: ART, A35F FS (37141) [GB]			

Hydraulic oil tank, return oil filter, replace, and magnetic rods, clean

Op nbr

This is part of other procedure.

CAUTION

Maintain greatest possible cleanliness during all work on the hydraulic system.

CAUTION

Take care of filters, oils and liquids in an environmentally safe way.

1. Clean around the cover for the hydraulic oil's return oil filter.
2. Spin off the cover.

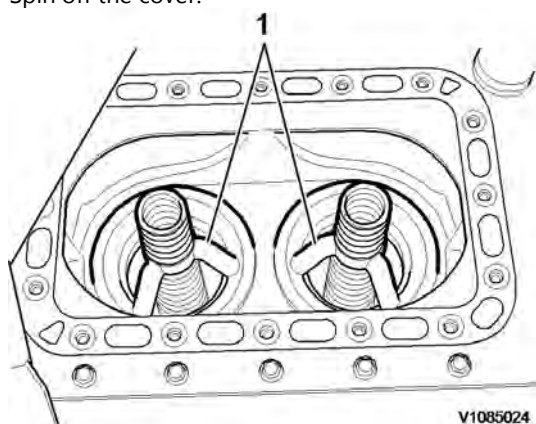
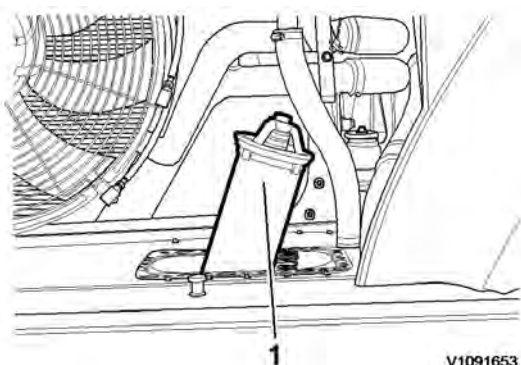


Figure 1

1. Return oil filter



- 3.

Figure 2

1. Filter insert for return oil filter

Remove the filter inserts.

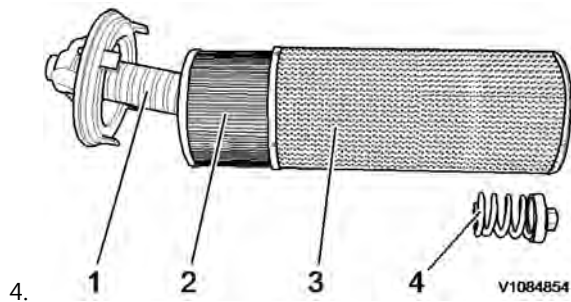


Figure 3

1. Magnetic rod
2. Filter
3. Filter bracket
4. Fastener nut

Dismantle the filter insert as shown in the figure.

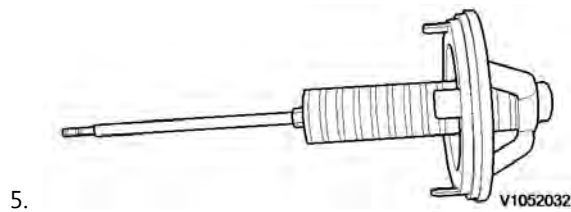


Figure 4

Magnetic rod

Wipe clean the magnetic rod thoroughly and install a new filter in the filter holder.

6. Check O-ring on the magnetic rod.
7. Reinstall the filter insert.
8. Repeat step 5-8 for the other filter insert.
9. Check O-ring for the cover and reinstall it.

Document Title: Hydraulic oil tank, breather filter, replacing	Function Group: 173	Information Type: Service Information	Date: 2014/8/6 0
Profile: ART, A35F FS (37141) [GB]			

Hydraulic oil tank, breather filter, replacing

Op nbr

This is part of other procedure.

NOTE!

The filter is of the disposable type, do not clean it, replace the filter.



Take care of filters, oils and liquids in an environmentally safe way.

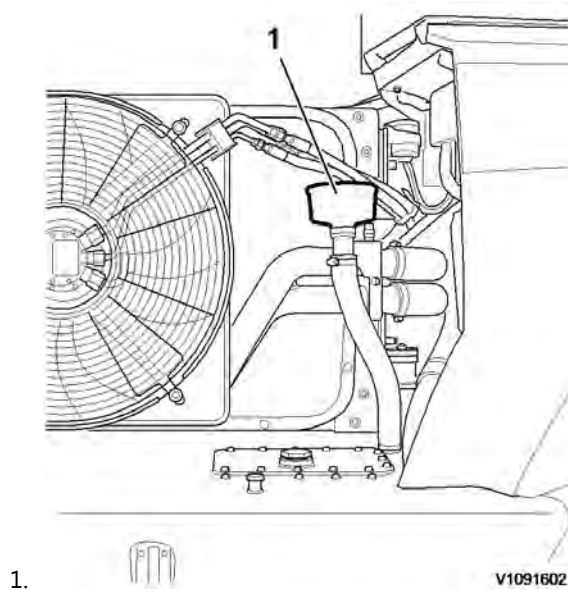


Figure 1

1. Breather filter for hydraulic oil tank

Change breather filter for the hydraulic oil tank.

Document Title: Brake cooling oil tank, breather filter, replacing	Function Group: 173	Information Type: Service Information	Date: 2014/8/6 0
Profile: ART, A35F FS (37141) [GB]			

Brake cooling oil tank, breather filter, replacing

Op nbr

This is part of other procedure.

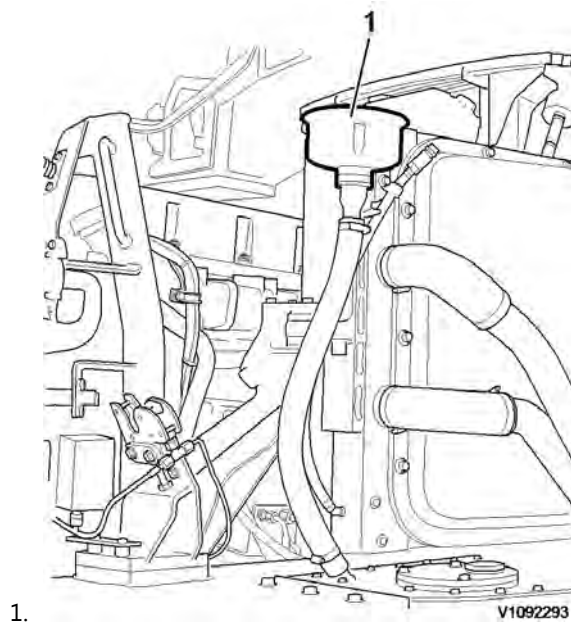


Figure 1

1. Breather filter, brake cooling oil tank

Change breather filter for the brake cooling oil tank.

Document Title: Fuel tank, axles, gearbox and dropbox, breather filter, replacing	Function Group: 173	Information Type: Service Information	Date: 2014/8/6 0
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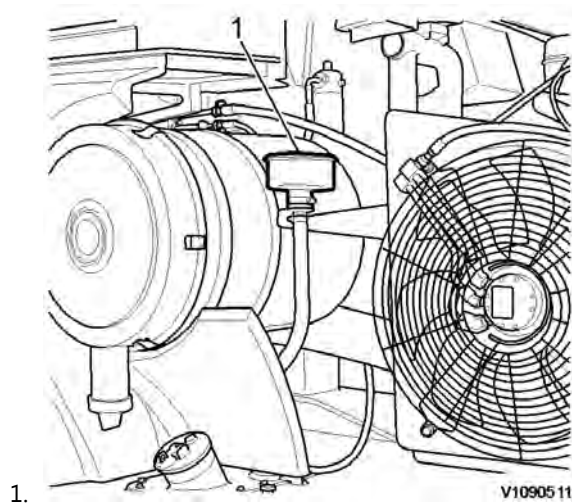
Fuel tank, axles, gearbox and dropbox, breather filter, replacing

Op nbr

This is part of other procedure.



Take care of filters, oils and liquids in an environmentally safe way.



1.

Figure 1

1. Breather filter, fuel tank

Change breather filter for the fuel tank.

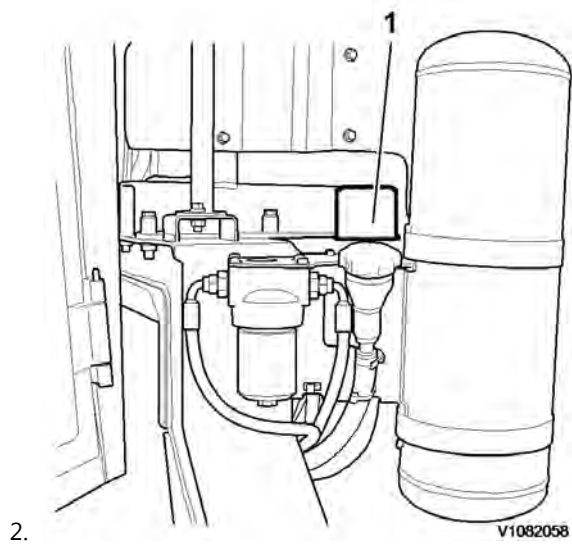


Figure 2

1. Breather filter, front axle and dropbox

Change breather filter for the dropbox and the tractor's front axle.

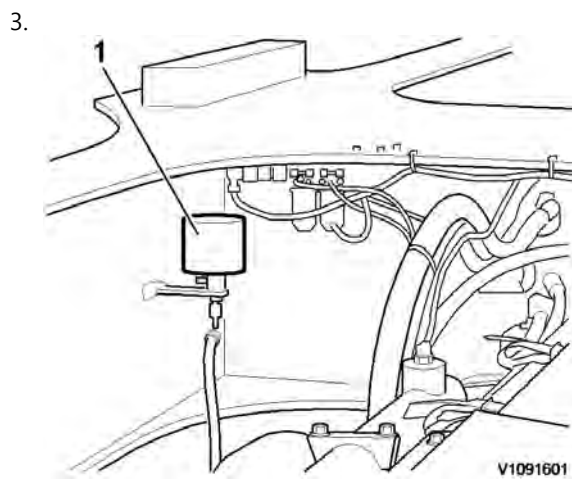


Figure 3

1. Breather filter, front bogie axle

Change breather filter for the front bogie axle.

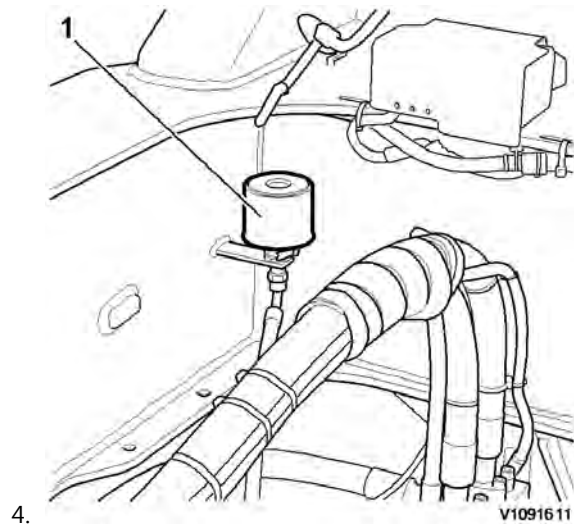


Figure 4

1. Breather filter, rear bogie axle

Change breather filter for the rear bogie axle.

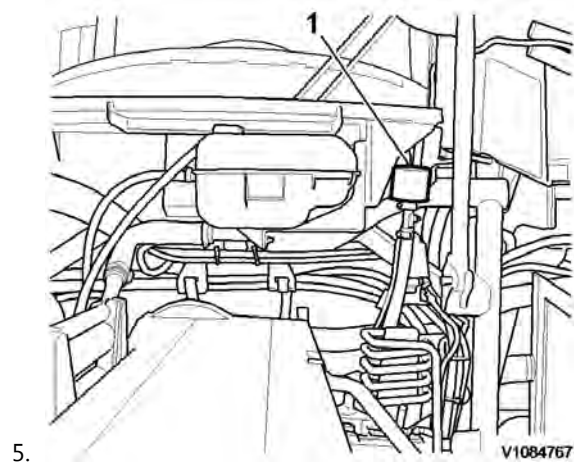


Figure 5

1. Breather filter for transmission

Change breather filter for the transmission.

Document Title: Service brake, brake disc wear, check	Function Group: 173	Information Type: Service Information	Date: 2014/8/6 0
Profile: ART, A35F FS (37141) [GB]			

Service brake, brake disc wear, check

Op nbr

This is part of other procedure.

NOTE!

This applies for normal operating conditions, in tougher conditions the brake discs should be checked more often.

1. Apply the parking brake.
2. Start the engine and run up pressure in the system.
3. Apply the load and dump brake.

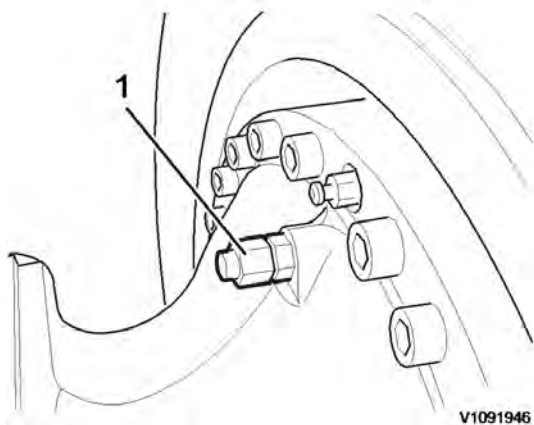


Figure 1

1. Protective cap
4. Remove the wear indicator cap.

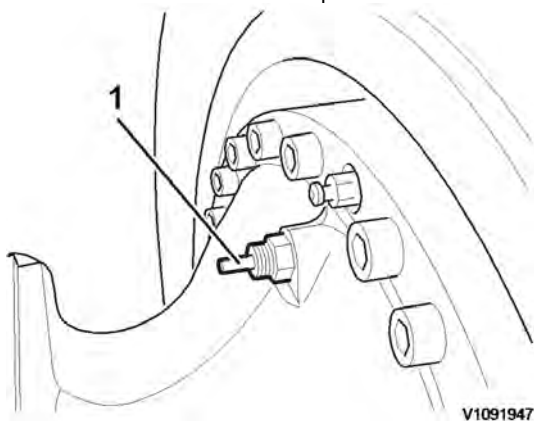
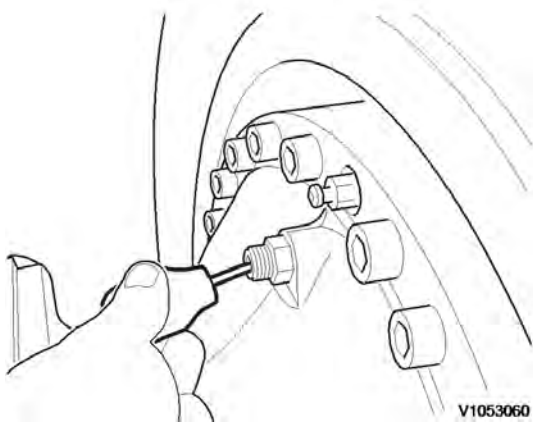


Figure 2

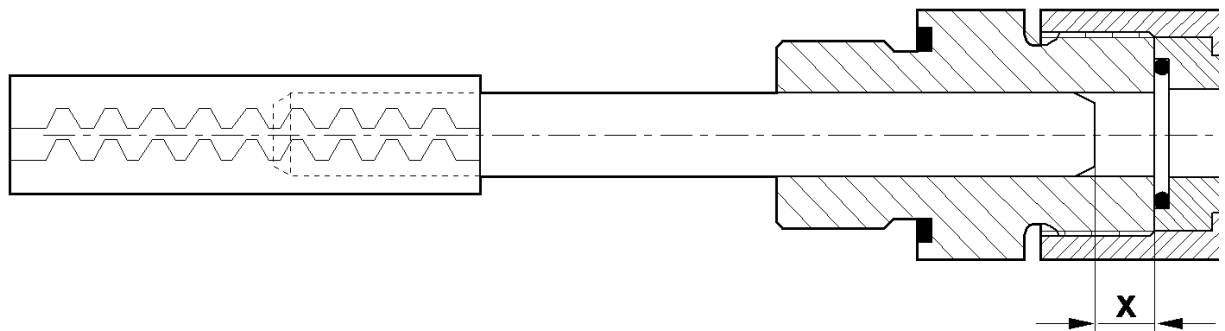
1. Wear indicator



5.

Figure 3
Insertion of indicator

Carefully push in the wear indicator as far as possible, e.g., with a small screwdriver. Then measure the wear indicator's insertion inside of the nipple's face as shown. Note the measurement.



6.

Figure 4
Cut-away view, wear indicator

X is the insertion measurement

The discs are worn out when measurement X equals 0 mm.

	Shaft	Value (mm) for new discs
A35F / A35F FS	Front axle	$X=6.8 \pm 0.1$
	Front bogie axle	$X=3.4 \pm 0.1$
	Rear bogie axle	$X=3.4 \pm 0.1$
A40F / A40F FS	Front axle	$X=6.8 \pm 0.1$
	Front bogie axle	$X=4.5 \pm 0.1$
	Rear bogie axle	$X=4.5 \pm 0.1$

7. Reinstall the wear indicator cap.

8. Repeat the measurement for the rest of the brakes.

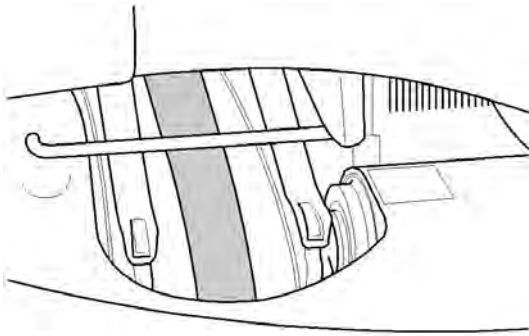
9. Turn off the engine.

Document Title: Parking brake pads, check	Function Group: 173	Information Type: Service Information	Date: 2014/8/6 0
Profile: ART, A35F FS (37141) [GB]			

Parking brake pads, check

Op nbr

This is part of other procedure.



1.

V1052045

Figure 1

Check the pads' thickness as shown in figure.

NOTE!

Min. measurement for parking brake pads is 5 mm (0.2 in).

Document Title: Steering cylinder bearings, clearance, check	Function Group: 173	Information Type: Service Information	Date: 2014/8/6 0
Profile: ART, A35F FS (37141) [GB]			

Steering cylinder bearings, clearance, check

Op nbr

This is part of other procedure.

NOTE!

Checking is done by 2 persons.

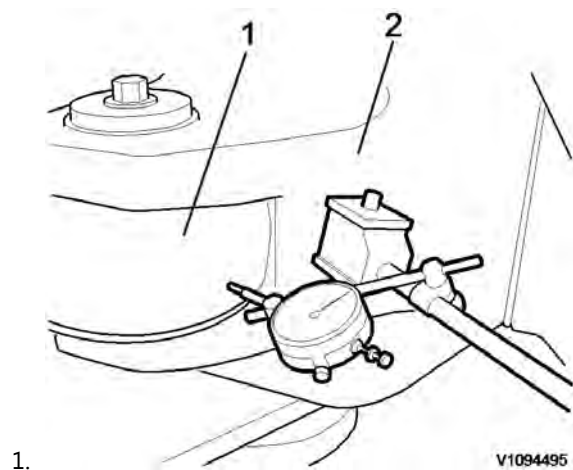


Figure 1

1. Cylinder rod
2. Hitch

Park the machine on level ground and apply the parking brake.

2. Secure the dial indicator with magnetic base on the hitch as shown in figure.
3. Start the machine and turn the steering wheel back and forth with small movements. Measure the movement of the piston rod bearing.

NOTE!

No clearance allowed.

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