

Document Title: Hydraulic oil, description	Function Group: 900	Information Type: Service Information	Date: 2014/7/16
Profile: ART, T450D [GB]			

Hydraulic oil, description

The machine is standard-equipped with mineral-based hydraulic oil and bio-oil is available as an option.

The hydraulic oil contains selected additives that give good oxidation stability, good corrosion protection and good lubricating characteristics.

Document Title: Hydraulic oil, storing and handling	Function Group: 900	Information Type: Service Information	Date: 2014/7/16
Profile: ART, T450D [GB]			

Hydraulic oil, storing and handling

- Hydraulic oil should be stored in tightly sealed tanks or barrels.
- Only containers intended for transport of hydraulic oil may be used for this purpose.
- Hydraulic oil should be stored indoors or in temperature-controlled facilities. If hydraulic oil is stored outdoors, the barrels should be stored horizontally to prevent penetration of water and eradication of barrel markings.
- In order to avoid condensation, oil should not be stored in temperatures above 60 °C (140 °F), or be exposed to intense sunshine or cold temperatures.

Document Title: Hydraulic components, cleanliness when handling	Function Group: 900	Information Type: Service Information	Date: 2014/7/16
Profile: ART, T450D [GB]			

Hydraulic components, cleanliness when handling



Hot hydraulic oil and hydraulic oil under pressure may result in severe personal injuries

NOTICE

It is very important to keep the hydraulic system free from any impurities, as these can cause abnormal wear and may lead to expensive downtime. Greatest possible cleanliness should be maintained during all handling of hydraulic components and hydraulic oil.

NOTE!

A vacuum pump should be used for work on the hydraulic system in order to avoid oil spills.

Document Title: Hydraulic system, repair of hydraulic components in workshop	Function Group: 900	Information Type: Service Information	Date: 2014/7/16
Profile: ART, T450D [GB]			

Hydraulic system, repair of hydraulic components in workshop

- Always wear clean coveralls and maintain strict personal cleanliness.
- Work with hydraulic components should be performed separate from other work in the shop, in a so-called "clean room". The room should have good ventilation and the floor should be coated with a binding material. Machining, grinding, etc. must not be performed in the "clean room".
- The workplace should be equipped with thoroughly cleaned tools and suitable containers for cleaning hydraulic components.
- Containers used for cleaning hydraulic components must not be used for other cleaning. The containers should be cleaned often and filled with new fluid.
- Clean all components that are going to be handled in the "clean room". Do not use caustic soda solutions or similar, which will result in corrosion.
- Always plan work on the hydraulic system so that it can be completed without long interruptions.
- When cleaning during repairs – use dry and clean compressed air for drying, not rags.
- When work is completed, always plug components with clean plastic plugs of suitable dimensions and package them.
- When cleaning the "clean room" – use methods that do not stir up dust and dirt.

Document Title: Hydraulic components, storage and transport	Function Group: 900	Information Type: Service Information	Date: 2014/7/16
Profile: ART, T450D [GB]			

Hydraulic components, storage and transport

- All hydraulic components should be stored in plastic bags or plastic foil and they should be plugged. The packaging must not be opened until the component is to be used.
- Service vehicles should be equipped with an interior which facilitates good order and cleanliness.
- Each service vehicle should have a roll of plastic foil, plastic plugs of the most common dimensions and plastic containers for components. Plugs and foil should be of the disposable type, that is, for one-time use only.

Document Title: Vacuum pump, connection	Function Group: 900	Information Type: Service Information	Date: 2014/7/16
Profile: ART, T450D [GB]			

Vacuum pump, connection

Op nbr 900-005

[14360000 Vacuum pump / 24V](#)

14360045 Adapter

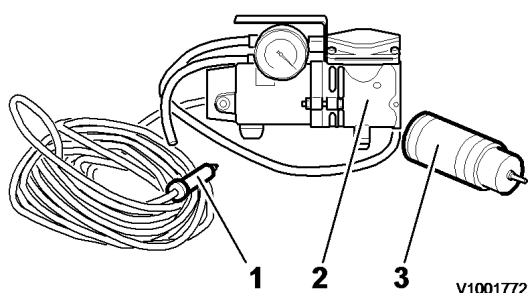


Figure 1
Vacuum pump

1. Plug-in connector
2. Pump
3. Adapter

WARNING

Hot hydraulic oil and hydraulic oil under pressure may result in severe personal injuries

Thoroughly clean the surfaces around the breather filter for the hydraulic tank, as well as the adapter for the vacuum pump so that no impurities end up in the filtered oil.

NOTE!

The engine must not be running when the adapter is connected to the breather filter. This means a risk of pump breakdown.

1. Connect the vacuum pump's suction hose to the adapter and place the pump in a suitable position.
2. Remove the breather filter for the hydraulic tank.

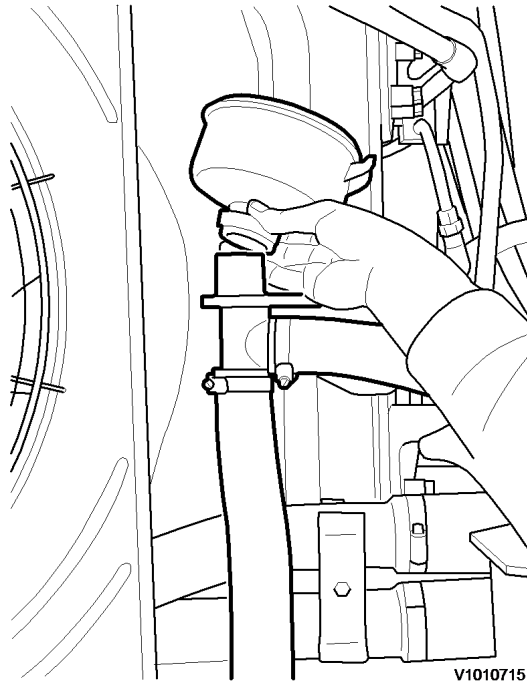


Figure 2
Breather filter

3. Tighten the adapter.

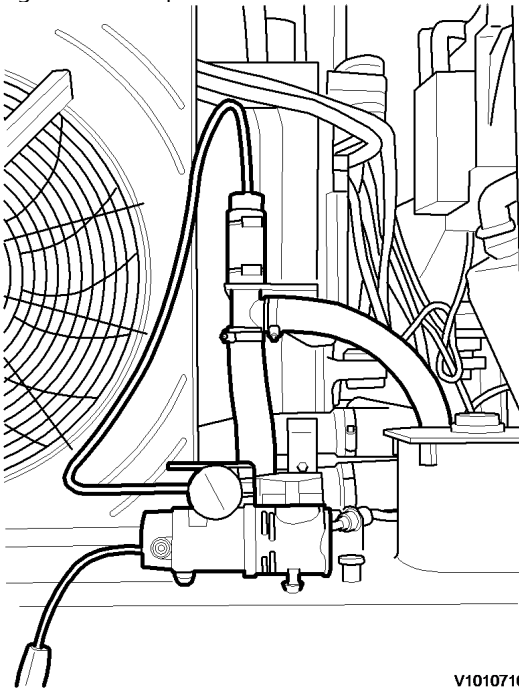


Figure 3

4. Connect the plug to the 24 Volt socket in the operator's cab.

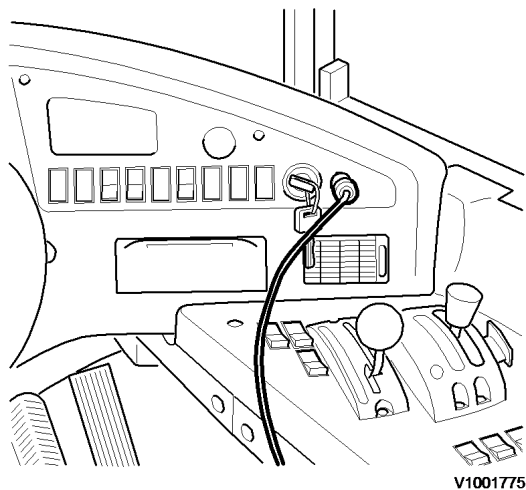


Figure 4
24 Volt socket

5. Start the vacuum pump.
6. Set the vacuum pump to **max. -300 mbar (-0.03 MPa) (-4.35 psi)** with the adjusting screw.

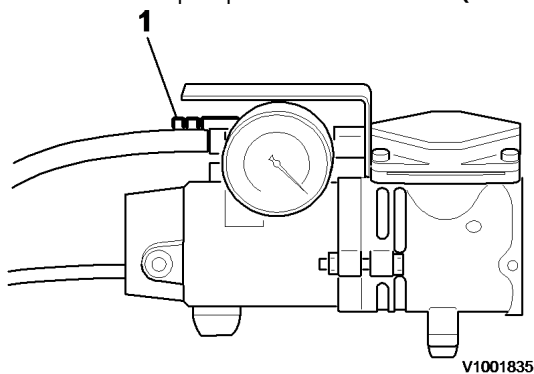


Figure 5

1. Adjusting screw
7. Let the pump work for 2 - 3 minutes so that the vacuum stabilizes.

NOTE!

If the pressure goes lower than -300 mbar, there's a risk that oil from the dropbox will be drawn into the hydraulic system, the hydraulic tank may also be damaged.

Document Title: Vacuum disconnection	Function Group: pump, 900	Information Type: Service Information	Date: 2014/7/16
Profile: ART, T450D [GB]			

Vacuum pump, disconnection

Op nbr 900-006

1. Turn off the electric power to the vacuum pump.
2. Unplug the plug from the 24 Volt socket.
3. Remove the adapter and fit the breather filter.

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