

Document Title: <b>Hydraulic oil, description</b>	Function Group: <b>900</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/23</b>
Profile: <b>EXC, EW230C [GB]</b>			

## Hydraulic oil, description

The oil contains selected additives that provide good oxidation stability, corrosion protection and good lubricating characteristics as well as compatibility with bearings containing lead alloys.

The ester base gives the oil a very high viscosity index and good characteristics at low temperatures.

Document Title: <b>Hydraulic system, repair of hydraulic components in workshop</b>	Function Group: <b>900</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/23</b>
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## **Hydraulic system, repair of hydraulic components in workshop**

- Always wear clean coveralls and be strict about personal cleanliness.
- Work on hydraulic components should be performed separate from other work in a so-called "clean room". The room must have good ventilation and the floor must be coated with a binding material. Machining, grinding and similar work is not allowed in the "clean room".
- The workplace must be equipped with thoroughly cleaned tools and suitable containers for cleaning hydraulic components.
- Containers for cleaning hydraulic components must not be used for other cleaning. The containers must be cleaned frequently and filled with new fluid. The containers must be equipped with a removable grating on the bottom, which separates the component from any sludge on the bottom.
- Always clean components that are going to be handled in the "clean room". If an alkaline detergent is used, it should contain anti-corrosion agent.
- Always plan work on the hydraulic system so that it can be completed without any longer interruptions.
- When cleaning during repairing – use dry and clean compressed air for drying, do not use cotton waste or rags.
- Always plug a component when work is completed, use clean plastic plugs of the correct dimensions, and pack the component.
- When cleaning in the "clean room" – use methods that do not stir up dust or dirt.

Document Title: <b>Hydraulic oil, storage and handling</b>	Function Group: <b>900</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/23</b>
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## **Hydraulic oil, storage and handling**

- Hydraulic oil should be stored in tightly sealed tanks or barrels.
- Only containers used for transporting hydraulic oil should be used for this purpose.
- Oil should be stored under cover or in temperature-controlled premises. If oil is stored outdoors, the barrels should be stored horizontally so that water cannot enter and the barrel markings are not eradicated.
- Oil must not be stored at temperatures exceeding 60 °C, or be exposed to direct sunlight or freezing temperatures.

Document Title: <b>Hydraulic components, storage and transport</b>	Function Group: <b>900</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/23</b>
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## **Hydraulic components, storage and transport**

- All hydraulic components must be stored in plastic bags or film and they must be plugged. The packaging must not be opened before use of the component.
- Service vehicles should be equipped with an interior which facilitates good order and cleanliness.
- Each service vehicle should carry a roll of plastic film, plastic plugs of the most common sizes and plastic containers for components. Plugs and film should be of the disposable type.

Document Title: <b>Hydraulic system, cleanliness when handling hydraulic components</b>	Function Group: <b>900</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/23</b>
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## Hydraulic system, cleanliness when handling hydraulic components

### **WARNING**

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, see [900 Vacuum pump, connection](#).

Document Title: <b>Vacuum pump, connection</b>	Function Group: <b>900</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/23</b>
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## Vacuum pump, connection

Op nbr 900-005

[14360000 Vacuum pump / 24V](#)

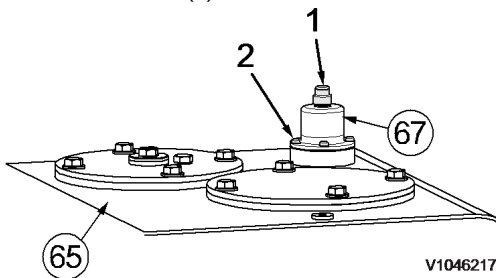
[9993803 Adapter plate](#)

**IMPORTANT!**The diesel engine must be shut off when the vacuum pump is connected.

**NOTE!**

There is always a risk of air entering the hydraulic system when using a vacuum pump.

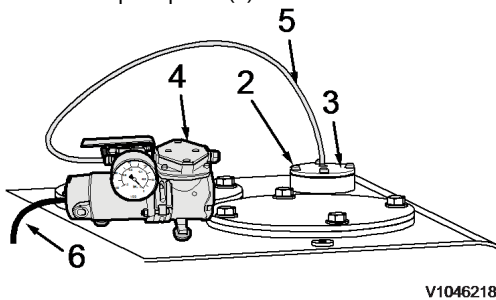
1. Press the button (1) several times to release the pressure until all the air is out.



**Figure 1**  
**Removing air filter breather**

1	Button
2	Screw
65	Hydraulic oil tank
67	Air filter breather

2. Remove the air filter breather (67) from the hydraulic oil tank.
3. Fit the adapter plate (3).



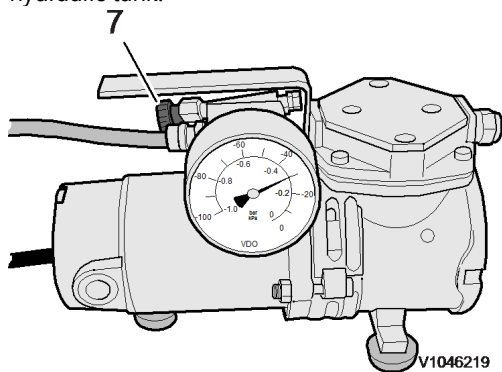
**Figure 2**  
**Connection of vacuum pump**

2	Screw
3	Adapter plate

4	Vacuum pump
5	Vacuum hose
6	Electrical cable with plug

4. Place the vacuum pump (4) on the hydraulic oil tank.
5. Connect the vacuum hose (5) to the adapter plate nipple.
6. Connect the electrical plug (6) to a 24 V socket (cigar lighter) in the cabin.
7. Switch the ignition to the position one.
8. Start the vacuum pump.
9. Run the pump for 2–3 minutes until a pressure reading of  $-30$  kPa ( $-4.35$  psi) is obtained.
10. Adjust the vacuum pressure with the adjusting knob (7) so that leakage will not occur during work on the hydraulic system.

**IMPORTANT!** The pressure must not fall below  $-30$  kPa ( $-4.35$  psi), as otherwise there is a risk of damage to the hydraulic tank.



**Figure 3**  
**Vacuum pump**

7	Adjusting knob
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Document Title: <b>Vacuum disconnection</b>	Function Group: <b>pump, 900</b>	Information Type: <b>Service Information</b>	Date: <b>2014/4/23</b>
Profile: <b>EXC, EW230C [GB]</b>			

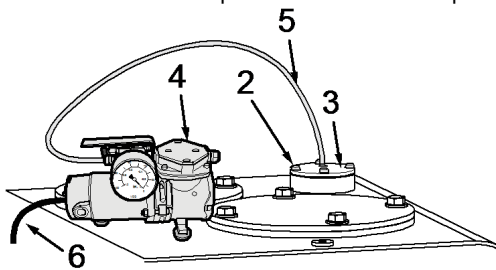
## Vacuum pump, disconnection

Op nbr 900-006

[14360000 Vacuum pump / 24V](#)

[9993803 Adapter plate](#)

1. Turn off the electric power to the vacuum pump (4).

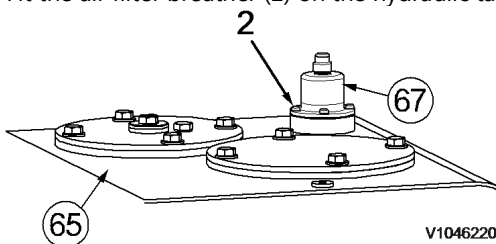


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**Figure 1**  
**Disconnection of vacuum pump**

2	Screw
3	Adapter plate
4	Vacuum pump
5	Vacuum hose
6	Electrical cable with plug

2. Remove the plug (6) from the 24V socket.
3. Remove the vacuum hose (5) from the adapter plate nipple.
4. Remove the adapter plate (3).
5. Fit the air filter breather (2) on the hydraulic tank.



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**Figure 2**  
**Installing air filter breather**

2	Screw
65	Hydraulic oil tank



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