

Instructions

Changing the PTO gear oil

106586 PTO gearbox for ACP and gear ratio $i=4$

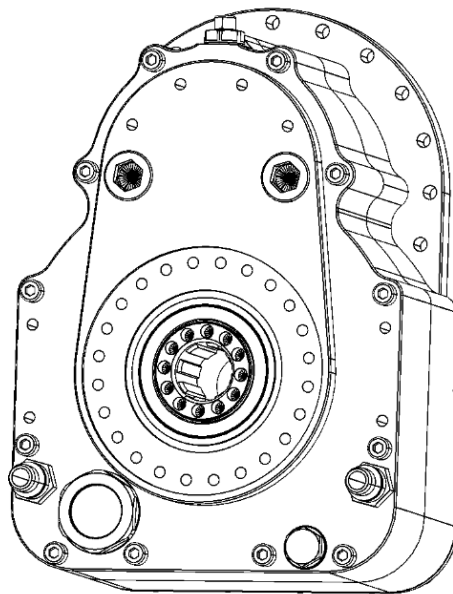
Translation of the document

Publisher

Designwerk Technologies AG

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Member of the Volvo Group



Validity

This document applies exclusively to the products listed in the following table:

Product	Model	Version
E-Truck	MID CAB MID CAB X HIGH CAB	V2.X
E-Truck	LOW CAB	V2.2

Required materials

Part Number	Quantity	Part
108329	1	Gasket for magnetic plug
112751	1	Sealing ring for ventilation filter
501992	0.5 l	ROXOR TECSYNTH 68 Industrial Gear Oil

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1 General notes and information

The gear oil in the PTO gearbox must be changed every 1,500 operating hours or after 1 year at the latest, whichever comes first. The operating hours can be viewed on page two of the system overview in the HMI.

1.1 Purpose of the document

The purpose of this document is to describe the oil change procedure for the PTO gearbox. This document may only be used by Designwerk service partners.

1.2 Maintenance documentation

The oil change must be documented as part of routine maintenance. Send the information to support@designwerk.com. Maintenance records must be retained and presented in the event of problems or inquiries.

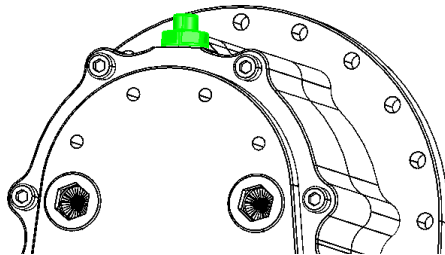
2 Checking accessibility of the ventilation filter



Ensure that the PTO is turned off, secured against being turned back on, and that the gear oil has cooled down.

2.1 The ventilation filter can be loosened and removed

- 1 Loosen and remove the ventilation filter.



- 2 Check the quality and color of the gear oil in the sight glass.



If the oil is no longer clear, is cloudy, or has changed color to anything from yellow to black, take a photo of it and send it to support@designwerk.com.

If metal shavings are visible, take a photo of them as well and send it to support@designwerk.com.

- 3 Drain the oil as described in the chapter 3.

2.2 The fill screw cannot be loosened

- 1 The PTO gearbox must be completely removed.
- 2 After removal, drain the oil as described in the chapter 3.

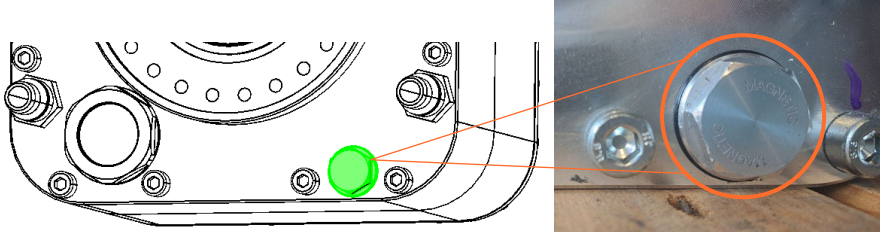
3 Drain the oil

3.1 Remove the magnetic plug



The used oil must be disposed of in accordance with applicable local regulations.

- 1 Loosen and remove the magnetic plug (501003) at the bottom right.



- 2 Let the oil drain into a suitable container until it stops dripping.

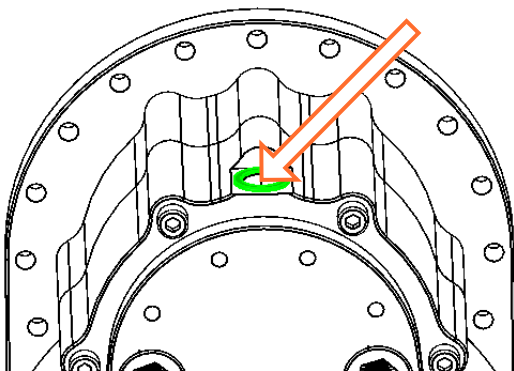


Fine metallic abrasion on the magnetic plug is normal and should be removed. Coarser metal particles, chips, or an unusually large amount of abrasion may indicate increased wear in the PTO gearbox.

- 3 Check the magnetic pin on the magnetic plug for chips.
If there are chips on the pin, take a photo of it and send it to support@designwerk.com.

4 Top off the oil

- 1 Replace the gasket on the magnetic plug (Part No. 108329).
- 2 Install the magnetic plug and tighten it, torque: 20 Nm.
- 3 Above the gearbox fill with 0.5 l of fully synthetic industrial gear oil ROXOR Tecsynth 68 (Part No. 501992) up to the upper edge of the sight glass.



5 Install the ventilation filter

- 1 Replace the sealing ring on the ventilation filter (Part No. 112751).
- 2 Reinstall the ventilation filter above the gearbox and tighten it, torque: 20 Nm.
- 3 Check the oil level and ensure the gearbox is leak-free.

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