

### **3. Maintenance of Phase shifter-gearboxes type UE / UEF / LUE / LUEF / MKUEF**

#### **3.1 Changing the lubricant**

This gearbox is filled with a synthetic lubricant.

- # N.B.! Do not mix mineral and/or synthetic grease/oil grades.  
The gearbox could be damaged if this is done.

#### **3.2 Spiral Bevel Gearboxes filled with oil**

The first oil change must be carried out after approx. 1.000 operating hours. Further oil changes are necessary after every 10.000 operating hours max. 3 years, please work with point 3.3.

#### **3.3. Procedure**

- # Allow gearbox to warm up
- # Secure drive and machine from unintentional movement or switching on
- # Open drain plug. allow lubricant to drain out through drain hole
- # Close drain plug
- # Remove vent and fill with specified oil grade to the oil level mark or the centre of the inspection glass
- # Replace vent

The table below specifies the required oil quantity.

Oil type according parts list or equivalent oil from other manufacturers, miscibility must be checked.

#### **3.4 Required oil quantities type UE + UEF**

Gearbox size	<b>1</b>	<b>2</b>	<b>25</b>	<b>30</b>	<b>4</b>
Oil qty. [Liter]	0,2	0,25	0,5	1	4

N.B. The volumes stated are approximate values.

The inspection glass or oil dipstick is definitive for the precise oil volume.

#### **3.5 Required oil quantities type LUE + LUEF + MKUEF**

Gearbox size	<b>1</b>	<b>2</b>	<b>25</b>	<b>30</b>	<b>4</b>
Oil qty. [Liter]	0,35	0,6	0,8	3,5	8

N.B.! The volumes stated are approximate values.

The inspection glass or oil dipstick is definitive for the precise oil volume.