

1 Lubrication chart

Edition: 2021-08, replaces edition 2020-08

Marine gearboxes without built-in disc clutch

Lubricants for marine gearboxes with micro pitting test "high"

Lubricant type

Marine diesel engine oil
Gear oil

Requirements

- **SAE 30 (ISO VG 100)**
- **FZG ≥ 12**

 <ul style="list-style-type: none"> • Shell Omala F 100 • Shell Gadinia AL 30 • Shell Gadinia S3 30 	 <ul style="list-style-type: none"> • Hyspin AWH-M 100 • Alphasyn HG 100^a 	 <ul style="list-style-type: none"> • Meropa MG 100 • Meropa XL 100 • Delo 1000 Marine 30 	 <ul style="list-style-type: none"> • Mobilgear XMP 100 • Mobil SHC 627^a • Mobilgear 600 XP 100
 <ul style="list-style-type: none"> • Eco Gear 100 M 	 <ul style="list-style-type: none"> • Renolin CLP 100 	 <ul style="list-style-type: none"> • GulfSea Gear 100 	 <ul style="list-style-type: none"> • Klüberoil GEM 1-100 N • Klübersynth GEM 4-100 N^a • Klüberbio EG2-100^b
 <ul style="list-style-type: none"> • Super Tauro Sintético 100^a 			

a. Synthetic oil (PAO only)

b. Biologically degradable oils (EAL)

Observe when selecting oil for use in REINTJES gearboxes:

- If the oil temperature is lower than
+ 10 °C / 50 °F (SAE 30)
+ 15 °C / 59 °F (SAE 40)
a sump heating installation is required (special equipment must be fitted to the gearbox).
- Lubricants approved by REINTJES meet all operational requirements and need no further additives. Further additives may even be harmful.
- Observe the manufacturer's safety data sheet for safely handling the lubricant.

Observe when changing oil:

- Observe the oil change intervals and oil analysis intervals specified in the operating manual.
- Replace filter elements when changing oil. Clean the venting filter thoroughly. Carry out a first check for contamination approx. 12 hours after commissioning.
- The oil level must be between the dipstick markings. The operating oil volume indicated on the type plate or the drawing of installation is a reference value.
- For flushing and cleaning of the gearbox use the operating oil. Remove cleaning oil from gearbox, oil filter and heat exchanger as thoroughly as possible.
- The gearbox is filled with VCI preservation oil when delivered. When the gearbox is put into operation, drain the VCI preservation oil and fill in operating oil. Any small amount of VCI preservation oil remaining may be mixed with the operating oil.

NOTICE

- ▶ The oil types listed in the lubrication chart are defined by the responsibility of the oil companies. The oils are suitable for the use in gearboxes and are in accordance with the REINTJES specification. The oil companies are responsible to keep the compositions of the oils identical as specified for this oil chart.
- ▶ REINTJES is neither liable for correctness of these data nor for any amendments occurring.
- ▶ If other oils shall be used please contact REINTJES first.
- ▶ REINTJES does not accept responsibility for any damages due to use of unsuitable oil.

NOTICE

Danger of hydrolysis

EAL lubricants are as a rule based on synthetically produced esters. There is always a danger of the used EAL lubricants to hydrolyse.

- ▶ Minimise the water content of the EAL lubricant for example by using adsorbents (special equipment).
- ▶ Observe the special information for EAL lubricants on oil change, flushing, and shutdown periods in the REINTJES operation description BV2379 "Guidelines for changing oil".
- ▶ Contact REINTJES service when using EAL lubricants for the first time.