# 1 Lubrication chart

Edition: 2025-06, replaces edition 2025-05

| **Marine gearboxes without built-in disc clutch** | |
|---|---|
| Lubricant type<br>• Marine diesel engine oil<br>• Gear oil | Requirements<br>• SAE 40 (ISO VG 150)<br>• FZG: SKS ≥ 12 acc. to DIN ISO 14635-1 (A/8,3/90)<br>• Greystaining test result acc. to FVA 54 ≥ 10 “high”<br>• CLP oils acc. to DIN 51517-3 + GFT ≥ 10<br>**or**<br>CLPX oils acc. to DIN 51517-4 |

| | | | |
|---|---|---|---|
| • Shell Omala S4 GX 150[a]<br>• Shell Omala S2 GX 150 (Shell Marine Gear Fluid S2 GX 150)<br>• Shell Omala S4 GXV Plus 150[a]<br>• Shell Gadinia AL 40<br>• Shell Gadinia S3 40 | • Castrol Alpha SP 150<br>• Alphasyn HG 150[a]<br>• Alphasyn EP 150[a] | • Meropa MG 150<br>• Meropa XL 150<br>• Meropa EliteSyn XM 150<br>• Meropa EliteSyn WL 150[a] | • Mobilgard 1 SHC[a]<br>• Mobilgear 600 XP 150<br>• Mobil SHC 629[a] |
| • Eco Gear 150 M<br>• Eco Gear 150 S[a]<br>• Gear Oil 150 F<br>• Eco Gear GLS 150 | • Renolin CLP 150<br>• Titan Universal HD 40<br>• Plantogear 150 S[b] | • GulfSea Synth Gear 150[a] | • Klüberoil GEM 1-150 N<br>• Klübersynth GEM 4-150 N[a]<br>• Klüberbio EG2-150[b] |
| • Maker Super Tauro Sintético 150[a] | • Carter EP 150<br>• Epona Z 150 | | |

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 adsorbers (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.