

Oil and Lubrication Recommendation for TMC Compressors

For all TMC compressors we recommend using a synthetic lubricant made for rotary screw compressors, containing antioxidants and preventive components against rust, foaming and wearing.

- Viscosity:
 - Maximum 500 mm²/s (cst) by starting temperature >0°C.
 - Minimum viscosity 7 mm²/s (cst) by running temperature of oil 100° C = 55°C higher than the ambient temperature.
- Flash point: Minimum 180°C.

Under normal circumstances, these conditions are fulfilled by using screw compressor oil ISO VG 46 Synthetic Oil for Marine use.

Names of oils are sometimes changed by the oil companies, and different types of oil are kept in stock at different locations worldwide. Therefore, the table below contains only some examples of oil types that can be used for TMC compressors.

If you can't get one of the oil types listed in the table and must use an alternative type, make sure that the oil has the same quality as the products listed below.

Example of oil types recommended for TMC compressors

Brand name	Oil type (viscosity acc. to ISO VG 46 Synthetic Oil)
TMC	AEON 9000 TH – special TMC compressor oil
Mobil, Exxon/Esso	Rarus SHC 1025
Total	Dacnis SH46, Barelif SM46
Shell	Corena S4 R 46
Texaco/Chevron	Cetus PAO 46
Castrol	Aircol SR 46
BP	Energol RC – S 46
ELF	Barelif SM 46
Statoil	Comp Way SX 46
Lukoil	Renolin Unisyn OL 46
Gulf	GulfSea Synth Compressor Oil 46

TMC recommendation for oil change:

Oil change to be done at 1500 running hours, or at least every second year whichever occurs first.

Motor bearing lubrication intervals

Compressor Series	Re-greasing intervals	Additional information
TMC 7 – TMC 10	No Lubrication	Enclosed bearings
TMC 15 – TMC 27	3000 hours	All models
EMH 35 – EMH44	3000 hours	All models
TMC 54 – TMC 85	3000 hours	All models
TMC 86 – TMC 124	1500 hours	All models
TMC 105 – TMC 235	3000 hours	Base load (fixed speed) models
TMC 105 – TMC 235	1500 hours	All SA (Smart Air) models
TMC 240 – TMC 365	1500 hours	All models

Note! Recommended lubrication intervals are for high ambient temperature conditions and are shortened to meet the demanding Marine conditions.

Note! If possible, re-grease the bearings while the motor is running.

Note! If re-greasing only can be to be done when the motor is stopped use following procedure:

- Press in half the grease quantity, run the motor on full speed a few minutes before pressing in the remaining grease quantity.

Grease type and amount of grease for electrical motor: see motor name plate or motor manual.



Do not mix different oil or grease types as this will lead to high risk of oxidation.



If the oil type/brand is to be changed, also change the oil filter cartridge at the same time. It is important to try to drain as much of the old oil as possible from the oil circulation system before refilling. Be aware that it can be remaining oil in the air-end that need to be drained especially.



After changing the oil type/brand, start the compressor and run it for 1-2 hours. After this period drain and change oil and filter again to avoid the mix of different oil types.



Always keep oil level at least 1 cm below the maximum level mark on the oil indicator to avoid oilcarryover.