Wilhelmsen Ships Service

Last updated: 31/10/2026 03:00:53

KLUBER SUMMIT SH 46 (CANISTER: 20 LTR)

Product group: **683** Product number: **210080**

KLÜBER SUMMIT SH 46 is a synthetic air compressor oil for oil change intervals up to 10,000 operating hours



Product information

Klüber Summit SH oils are air compressor oils based on synthetic hydrocarbon and additives. They can be mixed with mineral oils and synthetic hydrocarbon oils, however are not miscible with polyglycol oils.

Klüber Summit SH oils offer excellent oxidation stability due to the synthetic base oil, thus minimizing oxidation residues in the compressors, extending oil change intervals and the service life of oil filters and separators. Special inhibitors contained in the oils keep the inside of compressors clean.

Gumming of pneumatic valves in the compressed air circuit can be prevented as well due to the low oil content of the Klüber Summit SH oils and maintenance intervals can be extended, reducing both the strain on resources and disposal costs.

In addition, Klüber Summit SH contributes significantly to the compressor system's energy efficiency compared with conventional mineral compressor oils. Optimised friction behaviour reduces the compressor's internal friction resistance and operating temperature.

Features

- Designed especially for the lubrication of highly loaded, oil-injected screw-type compressors with oil change intervals up to 10,000 operating hours.
- Used for compressors that were previously run with mineral oils.
- Neutral towards most elastomer seals used in air compressors, therefore leakage is not to be expected.

Benefits

- Low maintenance and operating costs due to extended oil change intervals up to 10,000 operating hours in oil-injected screw-type compressors
- Easy compressor oil conversion due to neutral behaviour of oils towards seals
- Low tendency to evaporation and thus low impact of the oil vapour on the compressed air
- Longer service life of the oil filters, activated carbon filters and oil separators
- Low formation of oxidation residues in the oil circuit
- Reduced operating costs due to extended oil filter and separator life

Specification

General

Suggested Inventory Hazard Material classification	C-3

Physical properties

Appearance	clear
Colour	colourless
Density at 20°C [g/cm³]	approx. 0.85
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C [mm²/s]	approx. 7.3
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C [mm²/s]	approx. 46

Dimensions/Weight

Packing Size	20 LTR

Technical data

Shelf life [months]	60
Viscosity index, DIN ISO 2909	>= 115

Performance data

"Copper corrosion, DIN EN ISO 2160, 24 h/100°C"	1 - 100 corrosion degree
Demulsifying capacity, DIN 51599, ASTM D 1401, at 54 °C	40/37/3 ml
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus [°C]	>= 240
Foam test, ASTM-D 892, ISO 6247, sequence I/24 °C [ml]	<=50/0 ml
Foam test, ASTM-D 892, ISO 6247, sequence II/ 93.5 °C [ml]	<=50/0 ml
Foam test, ASTM-D 892, ISO 6247, sequence III/24°C [ml]	<=50/0 ml
Pour point, DIN ISO 3016 [°C]	< -36

Documents

SDoC and MD for IHM

Directions for use

When selecting the oil viscosity for air compressors please observe the manufacturers' instructions.

When switching a used compressor to a Klüber Summit SH oil, drain old oil from whole circuit of compressor while still warm. We also recommend changing all oil filters and separators. Then refill the compressor with Klüber Summit SH oil.

When switching from mineral oil to a synthetic Klüber Summit SH oil please consider that the compressor may contain oxidation residues in the form of blackened or contaminated oil.

As such residues can affect the service life of the fresh Klüber Summit SH oil, the compressor should be cleaned.

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