

Klüber Summit SH 46 XS

Synthetic air compressor oil enabling oil change intervals up to 10,000 operating hours



Your benefits at a glance

- Klüber Summit SH 46 XS contains an antifoam additive without silicone
- Low maintenance and operating costs due to long oil change intervals of up to 10,000 operating hours in oil-injected screw-type compressors
- Easy compressor oil conversion due to neutral behaviour of the oil towards seals
- Low tendency to evaporation and thus low impact of the oil vapour on the compressed air
- Longer service life of oil filters, activated carbon filters and oil separators
- Low formation of oxidation residues contributing to reduced operating costs through longer oil filter and oil separator lifetimes

Your requirements - our solution

Klüber Summit SH 46 XS is a special oil for air compressors based on synthetic hydrocarbon, additives and an antifoam solution free from silicone. The oil is miscible with mineral oils and synthetic hydrocarbons, but not with polyglycol-based products.

Application

Klüber Summit SH 46 SX was especially developed for the lubrication of highly loaded rotary screw compressors which require an oil formulated without the use of silicone raw materials.

Klüber Summit SH 46 XS is intended for oil-injected rotary screw compressors with oil change intervals of up to 10,000 operating hours.

Used compressors can be switched over from conventional mineral oils to Klüber Summit SH 46 XS. Klüber Summit SH 46 XS is neutral towards most elastomers typically used in air compressors - no leakage is to be expected.

Klüber Summit SH 46 XS offers very good oxidation stability due to the synthetic base oil, thus minimising oxidation residues in the compressor and extending oil change intervals and the service life of the oil separator. The product contains special inhibitors to largely prevent the formation of residues in the compressors.

Owing to the evaporation stability of the base oil, the oil vapour content in the compressed air can be considerably reduced compared to conventional mineral oils. This contributes to a reduction of oil consumption and clean compressed air; gumming of pneumatic valves in the compressed air circuit can be prevented as well due to the low oil content in the compressed air.

Application notes

Our experience so far has shown that the raw materials of Klüber Summit SH 46 XS are paint-compatible and thus do not interfere with the quality of a paint finish. In view of the many different paint systems and testing criteria, individual paint compatibility tests should be performed by the user prior to series application.

When selecting the oil viscosity for air compressors, please observe the manufacturer's instructions.

When switching a used compressor to Klüber Summit SH 46 XS, drain the old oil from the whole circuit while still warm. We also recommend changing all oil filters and separators. Then refill the compressor with Klüber Summit SH 46 XS.

If the previously used oil was a mineral oil, oxidation residues may be present in the compressor. Typical symptoms are black discoloration or impurities in the previously used oil. As such residues can affect the service life of the fresh Klüber Summit SH 46 XS oil, we recommend cleaning the compressor with Klüber Summit Varnasolv prior to changeover.

For further information please turn to your contact person at Klüber Lubrication or see the product information leaflet on Klüber Summit Varnasolv.

After changing over to Klüber Summit SH 46 XS, we recommend determining the oil change interval through an oil analysis or the Klüber Summit TAN Kit.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.



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Pack sizes	Klüber Summit SH 46 XS
Canister 19 l	+

Product data	Klüber Summit SH 46 XS
Article number	050140
Colour space	colourless
Appearance	clear
Density, DIN 51757, 20 °C	approx. 0.85 g/cm ³
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 46 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 7.2 mm ² /s
Viscosity index, DIN ISO 2909	>= 115
Foam test, ASTM-D 892, ISO 6247, sequence I/24 °C	<= 50/0 ml
Foam test, ASTM-D 892, ISO 6247, sequence II/ 93.5 °C	<= 50/0 ml
Foam test, ASTM D 892, ISO 6247, sequence III/24°C	<= 50/0 ml
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
Pour point, DIN ISO 3016	<= -36 °C
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus	>= 240 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

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The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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