

Klüber Summit SB 46, 68

Synthetic air compressor oils for oil change intervals up to 8,000 operating hours



Benefits for your application

- **Low maintenance and operating costs due to extended oil change intervals up to 8,000 operating hours in oil-injected screw-type compressors**
- **Easy compressor oil conversion due to neutral behaviour of oils towards seals**
- **Low tendency to evaporation ensures clean (oil-free) compressed air and oil-free compressed air ductwork system, no unnecessary cleaning or failure of gummed pneumatic valves**
- **Low formation of oxidation residues in the oil circuit, reduced operating costs due to extended oil filter and separator life**

Description

Klüber Summit SB oils are air compressor oils based on synthetic hydrocarbons and additives. These oils are miscible with mineral oils and synthetic hydrocarbon oils, but not with oils based on polyglycol.

Klüber Summit SB oils offer excellent oxidation and ageing stability and show a good viscosity-temperature behaviour.

Application

Klüber Summit SB oils have been especially designed for screw-type compressors subject to high loads. They are used for oil change intervals up to 8,000 operating hours in air compressors.

Klüber Summit SB oils can be used for compressors that were previously run with mineral oils. Klüber Summit SB oils are neutral towards most elastomer seals used in air compressors, therefore leakage is not to be expected.

Klüber Summit SB oils offer good oxidation stability due to the synthetic base oil content, thus minimising oxidation residues in the compressors and extending oil change intervals and the service life of oil filters and separators. Special inhibitors contained in the oil keep the inside of compressors clean and ensure a high efficiency.

Owing to the evaporation stability of the base oil, the oil vapour content in the compressed air can be reduced several-fold compared to conventional mineral oils. This contributes to a reduction of oil consumption and clean compressed air; it also helps to prevent gumming of pneumatic valves in the compressed air circuit.

Application notes

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

When switching a used compressor to Klüber Summit SB oils, 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 SB oil.

When switching from mineral oil to a Klüber Summit SB 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 SB oil, the compressor should be cleaned using the Klüber Summit Varnasolv conditioner.

For further information, please consult the Klüber Summit Varnasolv product information leaflet or contact Klüber Lubrication.

After switching to a Klüber Summit SB oil 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.

Pack sizes	Klüber Summit SB 46	Klüber Summit SB 68
Canister 19 l	+	+
Drum 208 l	+	+

Klüber Summit SB 46, 68

Synthetic air compressor oils for oil change intervals up to 8,000 operating hours

Product data	Klüber Summit SB 46	Klüber Summit SB 68
Article number	050080	050081
Colour space	yellow	yellow
Appearance	clear	clear
Density, DIN 51757, 20 °C	approx. 0.87 g/cm ³	approx. 0.87 g/cm ³
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 46 mm ² /s	approx. 68 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 7.6 mm ² /s	approx. 9.8 mm ² /s
Viscosity index, DIN ISO 2909	>= 100	>= 100
Copper corrosion, DIN EN ISO 2160, 3 h/100 °C	1 - 100 corrosion degree	1 - 100 corrosion degree
Foam test, ASTM-D 892, ISO 6247, sequence I/24 °C	<= 50/0 ml	<= 50/0 ml
Foam test, ASTM-D 892, ISO 6247, sequence II/ 93.5 °C	<= 50/0 ml	<= 50/0 ml
Foam test, ASTM D 892, ISO 6247, sequence III/24°C	<= 50/0 ml	<= 50/0 ml
Pour point, DIN ISO 3016	<= -39 °C	<= -39 °C
Demulsifying capacity, DIN 51599, ASTM D 1401, at 54 °C	40/37/3 ml	40/37/3 ml
Flash point, DIN EN ISO 2592, Cleveland, open-cup apparatus	>= 240 °C	>= 260 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months	36 months





Klüber Summit SB 46, 68

Synthetic air compressor oils for oil change intervals up to 8,000 operating hours



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.

**Klüber Lubrication München SE & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.**

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.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.