

Klüber Summit SH 46

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

KLÜBER LUBRICATION
your global specialist

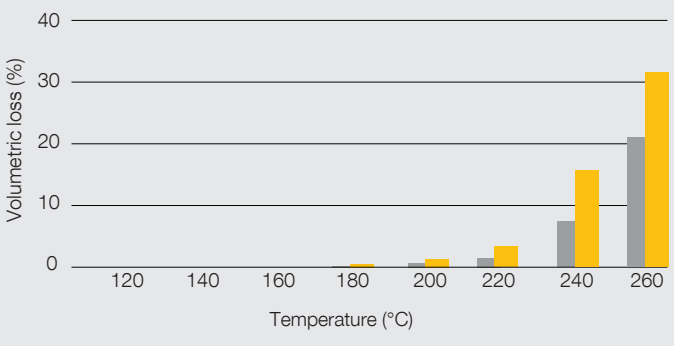
Klüber Summit SH 46 is an air compressor oil based on synthetic hydrocarbon, additives, and an antifoam solution free from silicone. The oil is miscible with mineral oils and synthetic hydrocarbons, but not with polyglycol-based products. Klüber Summit SH 46 oils have been designed especially for the lubrication of highly loaded, oil-injected screw-type compressors with oil change intervals of up to 10,000 operating hours.

Your benefits
– Less oil ingress in compressed air – reduced oil content in the compressed air up to 90%, so as to reduce the maintenance cost of the total system
– Reduced oil consumption of the compressor
– Clean compressed air and longer lifetime of related spare parts, hence low downtime cost

Low tendency to evaporation and thus low impact of the oil vapor on the compressed air

The based testing standard = TGA (Thermogravimetric Analysis – dynamic) -DIN 51006

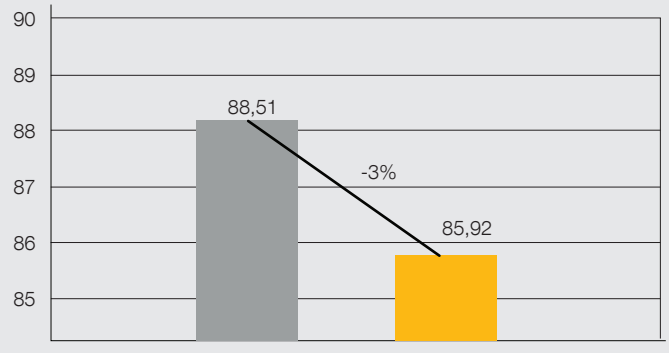
Evaporation loss



Reduction of energy costs due to more energy-efficient operation

Your benefits
– Maintaining the viscosity of the oil at operating temperature
– Enhanced equipment operation safety
– Reduced unscheduled production stoppages

Energy consumption of compressor (KW)



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Multiple tests at various compressor systems operated by customers have shown energy savings of up to 5% of electric power consumption during operation as well as an increase in compressed air flow due to the lower compressor temperature.

The resulting energy savings help you reduce your costs and attain your sustainability goals.

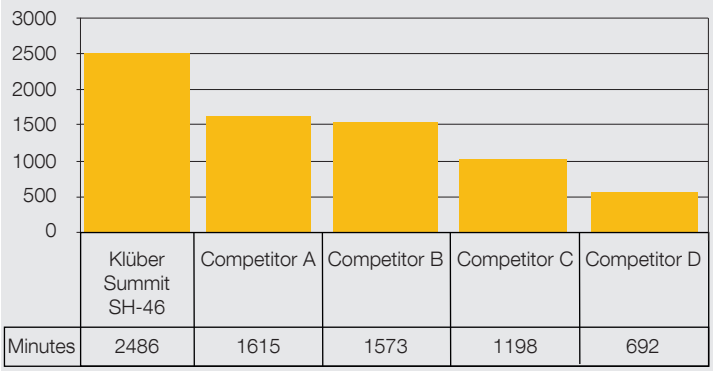
Excellent oxidation resistance/stability at higher temperatures

Your benefits

– Lifetime of oil in the compressor up to 5 times higher compared to mineral-based, up to 10,000h compared to 2000h for mineral oil
– Reduced deposits and formations due to oxidation products in the compressor, bearings, oil separator, and air pipes
– Extended lifetime of the oil separator (up to 3 times) due to less formation of oxidation products
– Higher availability and better production capacity of the compressor

Rotary Bomb Oxidation Test (RBOT) ensures precision in evaluating a material's resistance to oxidation, ensuring durability and reliability under challenging conditions.

ASTM D-2272 (RBOT): Rotary Bomb Oxidation Test



	Klüber Summit SH-46	Competitor A	Competitor B	Competitor C	Competitor D
Minutes	2486	1615	1573	1198	692

Reduced carbon residue formation

Your benefits

– Lifetime extension of spare parts like valves, vanes, etc.
– Reduced cleaning and overhaul
– Proper sealing effect with rotary screw compressors delivering reliable pressure level
– Improved reliability and availability of equipment in production

Before:

High residue formation



After:

Low residue formation



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