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Klüber Lubrication NA LP • 9010 CR 2120, Tyler, Texas 75707 • Phone 903.534.8021 • sales@klsummit.com



Product Data Sheet

NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current.

TURBINE LUBRICANT

CTPS Series

Summit's *CTPS Series* are premium blend turbine lubricants developed for high temperature steam, gas and combined cycle applications. They are formulated for use in geared and non-geared high output turbines. *CTPS Series* lubricants are a combination of high quality hydrotreated petroleum basestocks combined with the highest quality synthetics used in jet turbine applications. They are formulated to avoid the need for "bleed and feed" operations that may require an additional two or three times the original oil volume as make-up oil. The synthetics in *CTPS Series* help keep the system free of varnish and deposits which will eliminate the need for special ionic filtration and reduces the chances of stuck servo valves in systems equipped with hydraulics. The synthetics also help reduce friction in gears which can result in significant energy savings over the life-span of the turbine. This can be especially true for integrally geared centrifugal compressors.

Physical Properties

PRODUCT	CTPS-32	CTPS-46
ISO Grade	32	46
Viscosity _{ASTM D445} @40°C, cSt	31.4	44.8
@100°C, cSt	5.4	6.8
Viscosity Index _{ASTM D2270}	102	106
Pour Point, °F, (°C) _{ASTM D97/D5950}	0 (-18)	-2 (-19)
Flash Point, °F, (°C) _{ASTM D92}	441 (227)	469 (243)
Autoignition, °F, (°C)	667 (353)	673 (356)
Specific Gravity _{ASTM D4052}	0.87	0.87
RPVOT (min.) _{ASTM D2272}	1400	1362
FZG Failure Load Stage _{ASTM D5182}	12	12
Rust Prevention		
ASTM D665A	Pass	Pass
ASTM D665B	Pass	Pass
Water Separability _{ASTM D1401}	40/40/0 (5)	40/40/0 (10)
Copper Strip Corrosion _{ASTM D130}	1B	1B
Foam Test _{ASTM D892} (Seq I, Seq II, Seq III)	0/15/0	0/40/0
Air Release (min.) _{ASTM D3427}	2.3	3.2
Initial Boiling Point, °F, (°C)	641 (339)	670 (355)

Shelf Life: Product shelf life is 3 years from the date of manufacture, after which the product should be recertified prior to use.