



Syncon® Turbine Oil

Syncon Turbine Oil is a premium quality, synthetic lubricant developed for use in land-based gas turbines operating over a wide temperature range, where the manufacturer calls for a synthesized hydrocarbon (SHC) or PAO-based turbine oil.

Syncon Turbine Oil is formulated with synthetic polyalphaolefin (PAO) base oils and select additives to provide outstanding performance and protection in gas turbines. It has outstanding oxidation resistance and thermal stability at high temperatures to minimize deposit formation and provide long service life. It has high load-carrying capacity to protect against wear. It protects system components against rust and corrosion, and is resistant to excessive foam buildup that can interfere with proper lubrication. It has a high viscosity index and a very low pour point for use over a wide temperature range.

Applications

- Land-based gas turbines

Syncon Turbine Oil meets the requirements of the following OEM specification:

- Solar Turbines ES 9-224, Revision W, Class I (Synthesized Hydrocarbon) Turbine Oil

Features/Benefits

- Outstanding oxidation resistance and thermal stability at high temperatures
- Excellent low-temperature fluidity
- High viscosity index and very low pour point for use over a wide temperature range
- Low volatility for lower oil consumption and less makeup oil
- Protects against wear
- Protects against rust and corrosion
- Good foam resistance
- Extended service intervals compared with conventional mineral oil-based lubricants

Note: For information on compatibility with seals, paints and plastics, please call our Technical Support Hotline.

**Synthetic
PAO-Based
Turbine Oil**

CONTACT INFORMATION

**Phillips66
Lubricants.com**

U.S. Customer
Service:
1-800-368-7128

Technical Hotline:
1-877-445-9198

International
Customer Service:
1-832-765-2500

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**lubricants@
p66.com**



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Typical Properties

ISO Grade	32
Specific Gravity @ 60°F	0.854
Density, lbs/gal @ 60°F	7.11
Color, ASTM D1500	0.5
Flash Point COC, °C (°F)	254 (489)
Pour Point, °C (°F)	-57 (-71)
Viscosity,	
cSt @ 40°C	32.0
cSt @ 100°C	6.0
SUS @ 100°F	164
SUS @ 210°F	46.3
Viscosity Index	136
Acid Number, ASTM D974, mg KOH/g	0.36
Copper Corrosion, ASTM D130	1a
Demulsibility, ASTM D1401, minutes to pass	10
Foam Test, ASTM D892, Seq. I, ml	0/0
Four-Ball Wear, ASTM D4172, Scar Diameter, mm	0.40
FZG Scuffing Test, ASTM D5182, Failure Load Stage	>12
Oxidation Stability, RPVOT, ASTM D2272, minutes	1,600
Rust Test, ASTM D665 A&B	Pass

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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