



23699 Synthetic Fluid **(Synthetic Polyol Gas Turbine Fluid)**

23699 SYNTHETIC FLUID is high-performance synthetic gas turbine oil made from polyol ester. It is developed with a base stock and additive package that was developed for aircraft turbine standards and specifications. It is designed for use in aero derived turbine engines in marine and industrial applications operating at elevated temperatures, especially where mineral oils quickly break down. The fluid promoted here is recommended only for ground or marine based gas turbine installations.

Its extremely low pour point, high flash point, low evaporation rate and low deposit tendencies reduces downtime and make-up oil as well as for quick startups under a wide range of temperatures. These properties are excellent for a gas turbine service.

This fluid has excellent thermal stability and compatibility with seals found in gas turbines. It also has good load carrying ability as demonstrated by the Ryder Gear Test.

The fluid passes severe corrosion and oxidation tests that were developed for aeronautical gas turbines creating reliable service for turbines using this fluid.

BENEFITS:

- EXCEPTIONAL THERMAL STABILITY
- LOW DEPOSIT TENDENCIES
- FORMULATED FOR USE WITH CATALYTIC CONVERTERS
- MIL PRF 23699 SERVICE

APPLICATIONS:

23699 SYNTHETIC FLUID is recommended for a wide variety of marine- or land-based gas turbines.

This fluid is highly recommended for GE turbines such as the LM-1500, LM 2500 and LM 6000 marine and industrial gas turbine engines, and for field service evaluation by Detroit Diesel, Allison Gas Turbine Division, GM Corporation and United Technologies PSD (P&W).

This lubricant is used in turbine engines for applications such as pumping stations, peak power units, gear reduction transmissions, or other equipment requiring maximum lubrication over a broad temperature range.

Application reminder: This lubricant is not approved for use in aircraft under the FINA brand.



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TYPICAL CHARACTERISTICS

Grade	25
Product Code	43440
API Gravity (ASTM D 1298)	11
Density, 60/60 °F (lbs/gal)	0.993 (8.27)
Viscosity (ASTM D-445)	
cSt @ -40 °C (-40 °F)	9,000
cSt @ 40 °C	25
cSt @ 100 °C	5.0
Viscosity Index (ASTM D-2270)	132
Pour Point (ASTM D-97) °F (°C)	-76 (-60)
Flash Point (ASTM D-92) °F (°C)	510 (266)
Evaporation loss, %, 6 hrs @ 400 °F	3.3
Foam, D 892 Sequence I, II, III (ml foam)	
Initial foam	15/5/10
Foam stability, 1 minute set	0/0/0
Thermal stability, 96 hrs @ 525 °F	Pass
Synthetic rubber seal swelling test	Pass
Corrosion and oxidation stability 72 hrs @ 347, 400 or 425 °F	Pass
Bearing rig test, type 11/2 (350 °F)	Pass
Sonic shear stability, % change at 100 °F	0.5
Total acid number, mg KOH/gram (SAE ARP 5088)	0.18

The above data is subject to usual manufacturing variation. For more information or available, please call 1-800-442-LUBE.
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