

# OVERVIEW OF TN 600

- MEETS MILITARY SPEC AND MANY OEM APPROVALS
- IMPROVED VAPOR PHASE PERFORMANCE VS. COMPETING PRODUCTS
- MORE THAN 2.5 MILLION HOURS OF EXPERIENCE

# TN 600 GENERAL DATA

- VISCOSITY **25.8 cSt @ 40°C (ISO VG 22)**  
5.15 cSt @ 100°C (212 °F)
- Viscosity Index 132
- POUR POINT -57°C (-71F)
- Acid Number **0.16** mg KOH/g
- Foaming data 10/0 24°C ASTM D 892  
5/0 94°C  
10/0 24°C after 94°C
- Corrosion & Oxidative Stability (72 h at 204°C)  
  
TAN change +1.2 mg KOH/g  
Viscosity change +17 %

# MATERIAL COMPATIBILITY

- ***ELASTOMERIC SEALS***

- VITON (Fluorocarbon)
- TEFLON
- (FLUORO)-SILICONE
- NBR (low nitrile content)
- NBR (high nitrile)
- Natural Rubber (NR)
- Neoprene Rubber

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NO !

NO !

- ***PAINTS & COATINGS***

COMPATIBLE

- ***METALS***

NOT CORROSIVE

(TN 600 may give a *purple* tarnish to magnesium alloys but no corrosion takes place)

# TN 600: Field experience

GENERAL ELECTRIC  
LM 2500 gas turbine

Customer: **STATOIL** Norway

Turbine rating: 21 MW  
Utilisation: 6,200 h/year  
T.B.O.: 24 to 28,000 h

Combined oil scavenge  
temperature: 110°C (230F)  
A sump: 90°C (195F)  
B sump: **140°C (285F)**  
C sump: 120°C (250F)  
Oil consumption: 0.04 gal/h

bearing temperature: 175°C  
(Bearing Location N°6)



View of N°6 HPT bearing at  
overhaul, **24,000 h** with TN 600

# TN 600 vs. Competing Oils

## • **LOW VOLATILITY**

(less fumes & oil vapours, lower exposure of workers)

Characteristic	Unit	TN 600	Mobil Jet II	BP Turbo Oil 2380	specification MIL-PRF-23699
Flash point	°C	270	249	247	246 mini.
Fire point	°C	304	287	288	report
Evaporation loss 6,5 h @ 204°C	%m	3.4	5.9	8.9	10 max.

## **EXCELLENT HEALTH & SAFETY PROFILE**

- \* Aviation turbine oils contains 1-3% organic phosphate additive (anti-wear)
- \* TURBONYCOIL 600 contains triisopropylphenyl phosphate that is **not** classified "Harmful" (Xn - R21/R22) by the EU classification system.
- \* Competitor oils contain tricresyl phosphate (TCP) that is classified **Xn (R21/R22 - Harmful)**