

Technical Data Sheet

Eastman™ Turbo Oil 274

Application/Uses

- Aviation

Key Attributes

- 7.55 cSt synthetic lubricant
- Good high temperature performance and load carrying

Product Description

Eastman™ Turbo Oil 274 is now being used by over 50 airlines throughout the world. This represents nearly two-thirds of the world's commercial requirement for 7.5 centistoke turbo oils. This fact is proof of this product's outstanding performance in today's engines and accessories.

Eastman™ Turbo Oil 274 is a DEF STAN 91-98 oil in the 7.5 cSt viscosity class, uniquely suited for older turboprop applications, such as the R-R Dart.

The popularity of Eastman™ Turbo Oil 274 is largely due to its good high temperature performance and load-carrying ability. These provide long trouble-free performance under severe conditions

Synthetic oils of this type are not all identical. The advantages of Eastman™ Turbo Oil 274 are achieved only by careful selection and balance of base stocks and additives to provide the desired performance.

Typical Properties

Property	Test Method	Typical Value, Units
Density @ 15°C	ASTM D 1298	0.9516 kg/L
Viscosity, Kinematic		
@ 100°C	ASTM D 445	7.6 mm ² /s
@ 40°C	ASTM D 445	33.3 mm ² /s
@ -40°C after 35 minutes	ASTM D 2532	11,000 mm ² /s
Pour Point	ASTM D 97	-59°C
Flash Point	ASTM D 92	235°C
Total Acid Number	SAE ARP5088	0.24 mg KOH/g
Nitrile elastomer swell 192 hrs @ 150°C	FED-STD-791, 3604	23.2% vol
Silicone elastomer swell 192 hrs @ 100°C	FED-STD-791, 3604	6.7% vol
Foaming Volume		
Sequence 1 @ 24°C	ASTM D 892	5/0 ml/vol
Sequence 2 @ 93 °C	ASTM D 892	20/0 ml/vol
Sequence 3 @ 24°C	ASTM D 892	10/0 ml/vol

IAE gear test

2000 rpm	IP 166	101.4% of reference
6000 rpm	IP 166	106.3% of reference

Corrosion & Oxidative Stability ^a

Viscosity change @ 37.8°C	ASTM D 4636	13.5
Total Acid Number	ASTM D 4636	-1.38 mg KOH/g
Copper Weight Change	ASTM D 4636	-1.50 mg/cm ²
Magnesium Weight Change	ASTM D 4636	0.00 mg/cm ²
Aluminium Weight Change	ASTM D 4636	0.00 mg/cm ²
Iron Weight Change	ASTM D 4636	0.02 mg/cm ²
Silver Weight Change	ASTM D 4636	0.03 mg/cm ²

^a 72 hrs @ 175°C; ASTM D4636, Alternate Procedure 2

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