

Mobil Turbo 284

Aircraft Type Gas Turbine Lubricant

Product Description

Mobil Turbo 284 gas turbine lubricant is a combination of a highly stable synthetic base fluid and a unique chemical additive package. The result is a product having superior thermal and oxidation stability that resists deterioration and deposit formation, while maintaining excellent physical characteristics including low-temperature viscometrics. The effective operating range of Mobil Turbo 284 is between -40°C and 204°C (-40°F and 400°F). The pour point is below -56°C (-70°F). The product has a high specific heat in order to ensure good heat transfer from oil-cooled engine parts. In extensive laboratory testing and in-flight performance, Mobil Turbo 284 exhibits excellent bulk oil stability at temperatures up to 204°C (400°F).

Features and Benefits

Uniquely suited for use when there is a need for excellent thermal/oxidation resistance and extreme low temperatures restrict the use of higher viscosity engine oils.

Applications

Mobil Turbo 284 is recommended for aircraft gas turbine engines in military service, particularly where start-up temperatures are below -40°C (-40°F). The product is approved against U.S. Military Specification MIL-PRF-7808, Grade 4, and in equipment specifying 4 centistokes, MIL-PRF-7808 (latest revision) lubricants. Mobil Turbo 284 is compatible with other synthetic gas turbine lubricants meeting MIL-PRF-7808 or MIL-PRF-23699 Specifications. However, mixing with other products is not recommended because the blend would result in some loss of the performance characteristics of Mobil Turbo 284. The product is compatible with all metals used in gas turbine construction, as well as with F rubber (Viton A), H rubber (Buna N), and FVMQ rubber (fluorosilicone).

	Turbo 284	MIL-PRF-7808 Grade 4 Requirements
Product Number	49423-7	-
Viscosity		
cSt at 100°C (212°F)	4.0	4.0 min
cSt at 40°C (104°F)	17.6	17.0 min
cSt at -51°C (-60°F) after 3 hr	19,371	20,000 max
cSt at -51°C (-60°F) after 72 hr	19,477	20,000 max
Flash Point, °C (°F)	228 (444)	210 (410) min
Fire Point, °C (°F)	256 (493)	-
Pour Point, °C (°F)	-57 (-72)	-
Specific Gravity, 15/15°C (60/60°F)	0.980	-
TAN, mg KOH/g	0.07	0.50 max
Evaporation Loss, % 6.5 hr at 204°C (400°F)	8.27	10 max
Foam, volume/collapse time		
Static, ml/sec	25/0	100/60 max

	Turbo 284	MIL-PRF-7808 Grade 4 Requirements
Dynamic, ml/sec	pass	100/60 max
Rubber Swell, %		
H Rubber, 168 hr at 70°C (158°F)	19.4	12-35
F Rubber, 72 hr at 175°C (347°F)	16.0	5-25
FS Rubber, 72 hr at 150°C (302°F)	7.0	5-25

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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