ExxonMobil

Mobil Jet™ Oil CI

ExxonMobil Aviation , Canada

Advanced Full Synthetic Turbine Oil

Product Description

Mobil Jet™ Oil CI is a high performance aircraft-type gas turbine lubricant, based upon the proven Mobil Jet Oil II formulation technology that has been updated to include additional additives for improved protection against rust and corrosion in severe operating environments. It is fully qualified against the Corrosion Inhibited (CI) classification in the MIL-PRF-23699 specification and approved for use in military and commercial applications that require this level of performance.

Features and Benefits

Mobil Jet Oil II is formulated to meet the demanding requirements of aircraft-type gas turbines operating over a wide range of severe operating conditions, including severe salt water corrosive environments.

Features	Advantages and Potential Benefits
Excellent thermal and oxidation stability	Helps reduce the formation of carbon and sludge deposits Maintains engine efficiency and extends engine life
Excellent corrosion protection	Protects against rust and corrosion Helps extend gear and bearing life
Retains viscosity and film strength across wide temperature range	Provides effective lubrication at high operating temperatures
Chemically stable	Helps reduce evaporation losses and lowers oil consumption
Low pour point	Eases start-up in low ambient temperature conditions

Applications

Mobil Jet Oil CI is recommended for aircraft gas turbine engines of the turbo-jet, turbo-fan, turbo-prop, and turbo-shaft (helicopter) types in commercial and military service. It is also recommended for aircraft-type gas turbine engines used in industrial or marine applications where additional protection against salt water corrosion is required. Mobil Jet Oil CI is approved against the Corrosion Inhibited (CI) classification of U.S. Military Specification MIL-PRF-23699. It is also compatible with other synthetic gas turbine lubricants meeting MIL-PRF-23699. However, mixing with other products is not recommended because the blend would result in some loss of the performance characteristics of Mobil Jet Oil CI. Mobil Jet Oil CI is compatible with all metals used in gas turbine construction, as well as with F Rubber (Viton A), H Rubber (Buna N), and silicone seal materials.

Specifications and Approvals

This product has the following approvals:
MIL (US) MIL-PRF-23699-CI

Properties and Specifications

Property	

Property	
Color, ASTM D1500	3.5
Foam, Sequence III, Tendency, ml, ASTM D892	0
Change in Kinematic Viscosity, 72 h @ -40 C, %, ASTM D2532	1
Water, ppm, ASTM E1064	70
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	5
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	25
Kinematic Viscosity @ -40 C, mm2/s, ASTM D445	10690
Total Acid Number, mgKOH/g, ARP 5088	0.27
Flash Point, Cleveland Open Cup, °C, ASTM D92	270
Pour Point, °C, ASTM D5950	-63
Evaporation Loss, 6.5 h, 204 C, mass%, ASTM D972(mod)	4.1
Foam, Sequence I, Tendency, ml, ASTM D892	0
Foam, Sequence II, Tendency, ml, ASTM D892	0
Phosphorus, mg/kg, ASTM D5185	2740

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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