www.yairerez.co.il



Mobil Jet Oil II

Aircraft-Type Gas Turbine Lubricant

Product Description

Mobil Jet Oil II is a high performance aircraft-type gas turbine lubricant formulated with a combination of a highly stable synthetic base fluid and a unique chemical additive package. The combination provides outstanding thermal and oxidative stability to resist deterioration and deposit formation in both the liquid and vapour phases, as well as excellent resistance to foaming. The effective operating range of Mobil Jet Oil II is between -40°C (-40 °F) and 204 °C (400°F).

Mobil Jet Oil II is engineered for aircraft gas turbine engines used in commercial and military service requiring MIL-PRF-23699F-STD level performance. It also is recommended for aircraft-type gas turbine engines in industrial or marine service applications

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. 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 Jet Oil II exhibits excellent bulk oil stability at temperatures up to 204°C (400 °F). The evaporation rate at these temperatures is low enough to prevent excessive loss of volume. Key features and benefits include:

Advantages and Potential Benefits
Reduces the formation of carbon and sludge deposits
Maintains engine efficiency and extends engine life
Extends gear and bearing life Reduces engine maintenance
rangeProvides effective lubrication at high operating temperatures
Reduces evaporation losses and lowers oil consumption
Eases start-up in low ambient temperature conditions

Applications

Mobil Jet Oil II 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. Mobil Jet Oil II is approved against the Standard Performance (STD) 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 II. Mobil Jet Oil II 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

Mobil Jet Oil II has the following builder approva	S	
Engines		
-Honeywell/Lycoming-Turbine engines	Х	
-Rolls-Royce/Allison Engine Company	Х	
-CFM International	Х	
-General Electric Company	Х	
-IAE International	Х	
-Pratt and Whitney Group	Х	
-SNECMA	Х	
-Pratt and Whitney, Canada	Х	
-Rolls-Royce Limited	Х	

Mobil Jet Oil II has the following builder approvals	
-Honeywell/Garrett-Turbine Engine Company	Х
-Turbomeca	X
Accessories	
-Honeywell-Auxiliary power units and air cycle machines	Х
-Hamilton Standard-Starters	Х
-Hamilton Sundstrand corp APUs, Constant-speed drives and integrated-drive generators	X
Mobil JetOil II	
Approved against Mil-PRF-23699F-STD	Х
PRI-QPL-AS5780/SPC	Х

Typical Properties

Viscosity		
cSt @ 40°C (102°F)	27.6	
cSt @ 100°C (212°F)	5.1	
cSt @ -40°C (-40°F)	11,000	
% change @ -40°C after 72 hours	0.15	
Pour Point, °C (°F), ASTM D 97	-59 (-74)	
Flash Point, °C (°F), ASTM D 92	270 (518)	
Fire Point, °C (°F)	285 (545)	
Autogenous Ignition Temp, °C (°F)	404 (760)	
TAN (mg KOH/g sample)	0.03	
Density @15 °C, kg/l, ASMT D 4052	1.0035	
Evaporation Loss, %		
6.5 hr @ 204°C, 29.5" Hg	3.0	
6.5 hr @ 232°C, 29.5" Hg	10.9	
6.5 hr @ 232°C, 5.5" Hg	33.7	
(Equals pressure @ 40,000 Ft. altitude)		
Foam, ml		
Sequence I, 24°C	8	
Sequence II, 93.5°C	10	
Sequence III, 75°C (after 200 F test)	8	
Foam Stability, after 1 min settling, ml	0	
Rubber Swell		
F Rubber, 72 hr @ 204° C, %	15.6	
H Rubber, 72 hr @ 70°C, %	16.4	
Sonic Shear Stability, KV @ 40°C, change, %	0.9	
Ryder Gear, Ave. lb/in % Hercolube A	2750 ,115	

Health and Safety

Based on available toxicological information, this product is not expected to produce adverse effects on health when used and handled properly. Information on use and handling, as well as health and safety information, can be found in the Material Safety Data Sheet (MSDS) which can be obtained from your local distributor or via the Internet on http://www.exxonmobil.com/lubes.

The ExxonMobil logotype and Mobil are trademarks of Exxon Mobil Corporation, or one of its subsidiaries. PDSAV-03

Exxon Mobil Corporation 3225 Gallows Road

Fairfax, VA 22037-0001

For additional technical information or to identify the nearest U.S. ExxonMobil supply source, call 1800 662-4525. http://www.exxonmobil.com

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

Copyright © 2001-2014 Exxon Mobil Corporation. All rights reserved.