

ExxonMobil Mobil Turbo 319A-2

Category : Fluid , Lubricant , Polyalphaolefin (PAO)

Material Notes:

Mobil Turbo 319A-2 is a fully synthetic lubricant developed to meet the performance requirements of Russian gas turbine aircraft engines which operate on mineral-oil-based lubricants. Formulated from a synthetic hydrocarbon combination of polyalphaolefin (PAO) and hindered ester based stock, Mobil Turbo 319A-2 is fortified with a unique chemical additive system. The resulting product has far superior thermal and oxidation stability than mineral-oil-based lubricants. The ability of Mobil Turbo 319A-2 to resist deterioration and deposit formation allows the potential for extended oil drain intervals and less frequent maintenance. The closely controlled viscosity of Mobil Turbo 319A-2 at -51° C, along with a -60°C pour point, ensure good low-temperature fluidity, permitting engine starting and lubrication at low temperatures. Mobil Turbo 319A-2 exhibits excellent bulk oil stability at temperatures up to 200° C (392° F). The evaporation rate of Mobil Turbo 319A-2 at high temperatures is significantly lower than mineral-oil-based products, and helps minimize oil consumption. The lubricant has excellent resistance to foaming. Mobil Turbo 319A-2 is compatible with existing seal materials, including F Rubber (Viton A), H Rubber (Buna N), and silicone, as well as 11 metals used in gas turbine construction. Mobil Turbo 319A-2 is recommended for aircraft gas turbine engines that normally operate on mineral-oil-based lubricants, as well as engines approved to operate on oils meeting the specifications listed below. Mobil Turbo 319A-2 is approved against the following specification of the Russian Central Institute of Aeronautical Motors (CIAM): IMP-10; MS, 8P, MS-8RK; 36/1 Ku-A; VNII NP 50-1-4f and -4u; B3V and LZ-240; Mobil Turbo 319A-2 also meets U.S. Military Specification MIL-L-6081C, as well as the essential performance requirements of U.S. MIL-L-7808K, Grade 3.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Mobil-Turbo-319A-2.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.852 g/cc	0.852 g/cc	
Viscosity Measure	2917 cSt	2917 cSt	Kinematic Viscosity
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Kinematic Viscosity at 40°C (104°F)	12545 cSt	12545 cSt	Kinematic Viscosity
	@Temperature -51.0 °C	@Temperature -59.8 °F	
Kinematic Viscosity at 100°C (212°F)	16.2 cSt	16.2 cSt	
Kinematic Viscosity at 100°C (212°F)	3.7 cSt	3.7 cSt	
Evaporation Loss	2.4 %	2.4 %	5 hr @ 175°C

Thermal Properties	Metric	English	Comments
Pour Point	-60.0 °C	-76.0 °F	
Flash Point	234 °C	453 °F	

Chemical Properties	Metric	English	Comments
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Total Acid Number	0.030	0.030	
Chemical Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Foam Sequence I, ASTM D1135		30/0	
Foam Stability, after 1 min settling, mL		0	
Rubber Swell, %		11.9	H Rubber, 168 hr @ 70°C
		3	F Rubber, 72 hr @ 175°C

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