



AeroShell[®] OIL TURBINE 555

Synthetic turbine and helicopter transmission fluid

Product Description

AeroShell[®] Oil Turbine 555 is a 5-centistoke synthetic lubricating oil for gas turbine engines, helicopter transmissions and gearboxes. This product is blended from high quality “hindered” polyol esters with exceptional thermal stability properties and uses a unique enhanced additive package to improve load carrying and anti-wear performance. These carefully selected components result in a product which has superior load carrying performance, corrosion protection, and excellent thermal-oxidative stability. Always check with the manufacturer for the exact recommendation for each application.

Applications

- Jet aircraft turbine engines
- Helicopter transmissions
- Helicopter turbine engines
- Helicopter gear boxes
- Industrial gas turbine engines

Features/Benefits

- Exceptional thermal stability
- Superior load carrying capabilities
- Improved corrosion protection

Approvals and Recommendations

- DOD-L-85734A
- DEF STAN 91-100
- DERD.2497
- XAS 2354
- U.K. Joint Service OX-26
- Pratt & Whitney – 521C Type II
- General Electric – D-50 TF 1
- Allison – EMS-53
- Bell Helicopter Textron – Approved for all Bell turbine engine powered helicopter
- Boeing Vertol – Approved for Chinook
- McDonnell Douglas

Typical Properties of AeroShell Oil Turbine 555

Product Code		60073
Property	Requirements	Typicals
Oil Type	Synthetic ester	Synthetic ester
Viscosity		
@ 98.9 °C, cSt	5.0-5.5	5.4
@ 37.8 °C, cSt	25 min	29.0
@ -40.0 °C, cSt	13,000	11,000
Flash Point, °C	246 min	260
Pour Point, °C	-54 max	Below -54
Total Acidity – Mg KOH/g	0.5 max	0.3
Evaporation Loss 6.5 hrs @ 204°C, %m	10.0 max	2.6
Foaming	Must pass	Pass
Swelling of Standard Synthetic Rubber		
SAE-AMS 3217/1 72 hrs @ 70 °C swell-%	0 to 25	14
SAE-AMS 3217/4, 72 hrs @ 204 °C swell-%	0 to 25	14
Terminal Stability/Corrosivity 90 hrs @ 274 °C		
Metal weight change –mg/cm ²	4 max	-0.97
Viscosity change - %	5 max	-1/2
Total Acid Number Change – mg KOH/g	6 max	2
Corrosion and Oxidation Stability		
72 hrs @ 175 °C	Must pass	Pass
72 hrs @ 204 °C	Must pass	Pass
72 hrs @ 218 °C	Must pass	Pass
Ryder Gear Test, Relative Rating- Hercolube A	145 min	>145
Bearing Test Rig Type 1 1/2 Conditions		
Overall deposit demerit rating	80.0 max	22
Viscosity changer @ 37.8 °C -%	-5 to +30	21
Total Acid Number Change-mg KOH/g	2 max	0.83
Filter Deposits - g	3 max	0.5
Sonic shear stability		
Viscosity Change @ 40 °C-%	4 max	Nil
Trace Metal Content	Must pass	Pass
Sediment – mg/1	10 max	Pass
Ash – mg 1	1 max	Pass

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.equivashellmsds.com>. For more information and availability, call **1+800-782-7852** or visit the World Wide Web: <http://www.shell-lubricants.com/>.