ROYCO® 899
ADVANCED SYNTHETIC TURBINE LUBRICANT CORROSION INHIBITED

ROYCO® 899 is an advanced synthetic turbine engine oil designed for use in aircraft and stationary industrial gas turbine engines operating under severe conditions. This product is a 5 centistoke lubricant using state of the art additive technology and hindered Polyol ester base oils resulting in a technologically superior gas turbine lubricant that combines excellent thermal - oxidative and hydrolytic stability, antiwear protection, and rust and corrosion inhibition.

APPLICATIONS

ROYCO® 899 is especially recommended in critical gas turbine engine applications requiring rust and corrosion protection due to exposure to salt laden air, ambient tropical environments, or other industrial applications where exposure to chemical corrosives may be unavoidable.

ROYCO® 899 is also recommended in certain transmission and gearbox applications where a Mil-PRF-23699 lubricant is recommended.

FEATURES AND BENEFITS

Features

- **Rust and Corrosion Inhibited Improved Hydrolytic Stability**
- **Low Coking Improved Thermal-Oxidative Stability**
- **Low Phosphorus**
- **Wide Temperature Range Operation**

Benefits

- **May be used in high humidity environments such as over-sea operations**
- **Reduced maintenance costs**
- **Increase catalyst life**
- **Increased operational flexibility**

APPROVALS & SPECIFICATIONS

ROYCO® 899 is fully qualified to the current revision level of US Government MIL-SPEC:
MIL-PRF-23699F Class C/I NATO code O-156 and O-152.

Technical Information Effective: 26 May 2016

PACKAGING

ROYCO® 899 is available in 1 US Quart cans, 5 US Gallon pails and 55 US Gallon drums.

PROPERTIES	TEST METHOD	ROYCO® 899
Viscosity, cSt @ 100°C	ASTM D445	4.94
cSt @ 40°C		25.6
cSt @ -40°C		11,455
Viscosity Stability, 72 hrs @ -40°C, % Chg	ASTM D2532	Pass
Flash Point (COC),°C	ASTM D92	254
Pour Point, °C	ASTM D97	-72
Total Acid No., mg KOH/g	SAE-ARP5088	0.63
Evaporation Loss, %, 6-1/2 hrs @ 400°F	ASTM D972	3.4
Sediment Through 1.2 Micron Filter, mg/l	FTM 3010	0.93
Total Ash, mg/l		0.24
API Gravity	ASTM D287	10.59
Bearing Corrosion Test	Para 3.4.2.1	Pass
Foaming Test - Volume after 5 minutes blowing/Volume after 1 minute settling, ml	ASTM D892	
Sequence I		20/0
Sequence II		10/0
Sequence III		15/0
Thermal Stability, 96 hrs @ 274°C (525°F)	FTM 3411	
Viscosity Change @ 40°C, %		0.97
Total Acid No Change, mg KOH/g		3.21
Wt of Metal Change, mg/cm²		-0.67
Corrosion & Oxidation Stability, 72 hrs @ 204°C	FTM 5308	
Viscosity Change @ 40°C, %		13.5
Acid Number, Change mg KOH/g		0.30
Sediment, mg/100 ml oil		0.96
Metal Weight Change, mg/cm²		
Steel		0.016
Silver		0.00
Aluminum		0.04
Magnesium		0.021
Copper		-0.066
Trace Metal Contaminants	Para 4.4.6	pass

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