TECHNICAL DATA

Sentinel Canada

SenSyn 23699 C/I

ADVANCED SYNTHETIC TURBINE LUBRICANT

MILITARY SPECIFICATION: MIL-PRF-23699G
QPL NUMBER: O-13G-6

DESCRIPTION:

SenSyn 23699 C/I is the unique synthetic lubricant manufactured for use in stationary and aircraft turbine engine operating under very severe and harsh conditions.

SenSyn 23699 C/I is qualified under the latest U.S. Military specification, MIL-PRF-23699 C/I (Corrosion Inhibiting). C/I oils provide increased corrosion protection to engine bearings and components.

APPLICATIONS:

- Aircraft Turbine Engines
- Industrial and Marine Turbine Engines
- Aircraft Accessory Gear Boxes (where specified)

BENEFITS:

- Excellent Thermal Stability
- Excellent Oxidative Stability
- Excellent Hydrolytic Stability
- Biodegradable
- Approved under the latest U.S. military specification MIL-PRF-23699 C/I – Qualification Number 0-13G-6

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PROPERTIES:	Specifications	Typical Results
Classification		**Corrosion Inhibiting (C/I)**
QPL Number		0-13G-6
Viscosity, cSt, 100°C	4.90-5.40	5.0
40°C	23.0 min.	24.3
Flash Point, °C (°F)	246 min.	252 (485)
Pour Point, °C (°F)	-65 max.	-57 (-70)
Total Acid Number, mg KOH/g	1 max.	0.48
Viscosity Stability at -40°F, cSt	13,000 max.	11,000
Viscosity Change, %, 72 hours at -40°F	±6 max.	0.2
Evaporation, 6.5 hours at 400°F Evaporation loss, %	10.0 max.	4.7
Foaming 75°F Vol. after 5 min. aeration, ml	25 max.	15
Vol. after 1 min. settling, ml	None	0
200°F Vol. after 5 min. aeration, ml	25 max.	10
Vol. after 1 min. settling, ml	None	0
75°F (after test at 200°F) Vol. after 5 min. aeration, ml	25 max.	15
Vol. after 1 min. settling, ml	None	0
Swelling of Standard Synthetic Rubber H, 72 hours, at 158°F, swell %	5.0-25.0	18.7
Rubber F, 72 hours at 400°F, swell %	5.0-25.0	16.8

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PROPERTIES:	Specifications	Typical Results
Thermal Stability – Corrosivity, 96 hours, at 525°F		
Viscosity, change, %	5.0 max.	-1.4
Total Acid Number Change	6.0 max.	3.75
Colour Formation	Report	Dark brown
Sediment Formation	Report	None
Specimen Weight Change, mg	Report	--
Specimen Weight Change, mg/cm^2	4.0 max.	-0.8
Corrosion		
Above liquid	Report	None
Below liquid	Report	None
Sediment		
Sediment, mg/liter	10 max.	0.0
Ash, mg/litre	1 max.	0.0
Corrosion and Oxidation Stability		
72 hours at 347°F		Pass
72 hours at 400°F		Pass
72 hours at 425°F		Pass
Ryder Gear Test, 6 determinations (3 gears), relative rating % Hercolube A	102 min.	113
Sonic Shear Stability, Viscosity		
Change at 100°F, %	4.0 max.	0.1
Bearing Rig Test, Type 4 ½ (350°F oil)		
Summary		
Overall Deposit Demerit Rating	80.0 max.	35
Oil consumption, ml	2000	1040
Viscosity Change, 104°F, cSt, %	-5 to +30	+17.3
Total Acid Number Change, mg KOH/g	2 max.	0.57
Filter Deposits, g	3 max.	0.3
Bearing Corrosion Test	--	Pass

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