Product Data

Aero J5

High Performance Jet Engine Oil

Description

Aero J5 represents a new standard in high performance jet engine oils designed to exceed the requirements of MIL-PRF-23699G (C/I). Aero J5 is formulated using premium quality polyol esters enhanced with an optimised additive package providing maximum performance.

Application

Aero J5 is designed for use in turbofan, turboprop and turboshaft aircraft gas turbine engines, accessory equipment and ground based aeroderived gas turbines. Aero J5 offers superior thermal stability, excellent corrosion protection, improved load carrying capacity and reduced deposit forming tendency, when compared to other commercial oils.

Advantages

Aero J5 is fully compatible with engine and accessory construction materials, including metals, elastomers and sealing compounds.

Aero J5 is fully compatible and miscible with oils approved to MIL-PRF-23699G. For this reason, changeover to Aero J5 can be carried out by topping-off. By virtue of the differences in seal swell characteristics between oils, the engine/ accessory manufacturers` approval should be obtained for any proposed oil change.

Aero J5 benefits:

- Reduced deposit formation in engines
- Extended service use of oil
- Improved corrosion resistance under engine shutdown/storage

Additional Information

Aero J5 is fully qualified to U.S. Military Specification MIL-PRF-23699 Revision G, C/I (Corrosion Inhibiting).

Typical Characteristics

Name	Method	Units	Aero J5
Kinematic Viscosity @ 40°C / 104°F	ASTM D445	mm²/s	25.6
Kinematic Viscosity @ 100°C / 212°F	ASTM D445	mm²/s	4.95
Flash Point - open cup method	ASTM D92	°C (°F)	257 (495)
Pour Point	ASTM D97	°C (°F)	-60 (-76)
Evaporation Loss, 6.5 hrs @ 204°C	ASTM D972	w t %	4.4
Total Acid Number	SAE ARP 5088	mgKOH/g	0.58
Foam Sequence I - tendency / stability (1 minute settling)	ASTM D892	ml/ml	18/0
Foam Sequence II - tendency / stability (1 minute settling)	ASTM D892	ml/ml	11/0
Foam Sequence III - tendency / stability (1 minute settling)	ASTM D892	ml/ml	16/0
Thermal Stability and Corrosivity @ 274°C - viscosity change	FTM 3411	%	3.2
Thermal Stability and Corrosivity @ 274°C - TAN change	FTM 3411	mgKOH/g	1.2
Thermal Stability and Corrosivity @ 274°C - w eight of metal change	FTM 3411	mg/cm²	-0.5
Corrosion and Oxidative Stability, 72 hrs @ 204°C viscosity change	ASTM D4636, alternative procedure 2	%	14
Corrosion and Oxidative Stability, 72 hrs @ 204°C - TAN change	ASTM D4636, alternative procedure 2	mgKOH/g	0.24
Corrosion and Oxidative Stability, 72 hrs @ 204°C sludge content	ASTM D4636, alternative procedure 2	mg/100ml	1.9
Bearing Corrosion	RD 8001	-	Pass

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60C, exposed to hot sun or freezing conditions.

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