Product Data

Castrol Aerojet 5

High Performance Jet Engine Oil
Synthetic Base, 5 cSt, MIL-PRF-23699, C/I

Description

Castrol AeroJet™ 5 represents a new standard in high performance jet engine oils designed to exceed the requirements of MIL-PRF-23699F (C/I). AeroJet 5 is formulated using premium quality polyol esters enhanced with an optimized additive package providing maximum performance.

Application

AeroJet 5 is designed for use in turbofan, turboprop, and turboshaft aircraft gas turbine engines, accessory equipment and ground based aeroderived gas turbines. AeroJet 5 offers superior thermal stability, excellent corrosion protection, improved load carrying capacity, and reduced deposit forming tendency, when compared to other commercial Type II oils.

Aerojet 5 Benefits:

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

Construction Materials

AeroJet 5 is fully compatible with engine and accessory construction materials, including metals, elastomers and sealing compounds.

Compatibilty/Miscibility

AeroJet 5 is fully compatible and miscible with oils approved to MIL-PRF-23699F. For this reason, changeover to AeroJet 5 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.

Specification

AeroJet 5 is fully qualified to U.S. Military Specification MIL-PRF-23699 Revision F, C/I (Corrosion Inhibiting) (QUAL:08B and 08B-1).

Typical Characteristics

TEST METHOD (ASTM)	DESCRIPTION	TYPICAL
D 1298	Density, @ 15ºC (60ºF), gm/ml	0.97
D 445	Kinematic Viscosity, cSt	
	@ 100ºC (21º2F)	5.0
	@ 40ºC (104ºF)	25
	@ -40ºC (-40ºF)	12,000
D 97	Pour Point, ºC (ºF)	-62 (-80)
D 92	Flash Point, ºC (ºF)	258 (496)
D 2155	Autoignition Temperature, ºC (ºF)	410 (770)
D 972	Evaporation Loss, % wt.	
	6.5 hrs. @ 204ºC (400ºF), 760 mmHg	3.5
D 664	Total Acid Number (TAN), mgKOH/gm	0.3
D 892	Foaming Characteristics	
	Sequence 1 @ 24ºC (75ºF)	5/0
	Sequence 2 @ 93ºC (200ºF)	5/0
	Sequence 3 @ 24ºC (75ºF)	5/0
FTM 791.6508	Load Carrying Ability, Ryder Gear, Failure Load, lb. in.	3,690
IP 166	Load Carrying Ability, IAE Gear, Mean Failure Load, lb	
	@ 2,000 rpm	80
	@ 6,000 rpm	52
D 2603	Shear Stability, Viscosity Loss %	0.1
	Rubber Swell, %	
RR 1025	Nitrile, 192 hours @ 130ºC (266ºF)	7
RR 1020	Viton, 192 hours @ 200ºC (392ºF)	20
RR 1009	Silicone, 192 hours @ 175ºC (347ºF)	11
ARP 4249	Ball Corrosion Test, All Sequences	Pass

Subject to usual manufacturing tolerances.

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