Product Data

Brayco 885

Low Volatility, Aircraft Instrument Lubricating Oil

Description

Castrol Brayco™ 885 is a diester base synthetic oil with additives which impart corrosion protection, minimize galvanic corrosion, inhibit oxidation, and reduce foaming tendencies. It has exceptionally low volatility and good viscosity temperature characteristics. Temperature Range Brayco 885 is designed to operate over the temperature range of -65ºF to 250ºF (-54ºC to 121ºC).

Application

Brayco 885 is intended for use in aircraft instruments, electronic equipment, or in applications where an oil with a low evaporation rate is required for both high and low temperature operation, and also where oxidation and corrosion resistance are desirable. Brayco 885 may adversely affect certain paints and elastomers. Products other than those developed for diester base fluids should be carefully tested for compatibility prior to use.

Brayco 885 is qualified under Specification MIL-PRF-6085D. It is specified as a P-17 preservative under packaging Specification MIL-STD-2073-1.

Typical Characteristics

Name	Method	Units	Brayco 885
API Gravity	ASTM D287	-	21.3
Specific Gravity @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m³	9345
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m³	7.72
Colour	ASTM D1500	-	<2.0
Kinematic Viscosity @ 54°C / 129.2°F	ISO 3104 / ASTM D445	mm²/s	9.2
Kinematic Viscosity @ -54°C / -65.2°F	ISO 3104 / ASTM D445	mm²/s	11,530
Pour Point	ISO 3016 / ASTM D97	°C/°F	< -57 / < -70
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	225/437
Acid Number	ISO 6618 / ASTM D974	mgKOH/g	0.27
Precipitation Number	ASTM D92	-	0.0
Evaporation Loss, 22hrs @ 120°C / 248°F	ASTM D972	% wt	0.88
Cloud Intensity at Low Temperature @ -54°C / -65.2°F	FTM 202	Pass/Fail	Pass
Corrosion & Oxidation Stability - 168 hrs @ 121°C / 250°F			
Corrosion, Pitting or Etching	ASTM D4636-09	Report	None
Copper weight change	ASTM D4636-09	%wt	0.15
Steel weight change	ASTM D4636-09	%wt	0.04
Aluminium weight change	ASTM D4636-09	%wt	0.017
Magnesium weight change	ASTM D4636-09	%wt	0.007
Cadmium weight change	ASTM D4636-09	%wt	0.0
Change in Viscosity	ASTM D4636-09	% Change	0.22
Acid Number change	ASTM D4636-09	mgKOH/g	0.4
Oil weight loss	ASTM D4636-09	%	0.4

Subject to usual manufacturing tolerances.

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