



Brayco Micronic 883

Hydraulic Fluid, Rust Inhibited, Fire Resistant

Description

Castrol Brayco™ Micronic 883 is a rust-inhibited fire resistant synthetic ISO viscosity Grade 15 hydraulic fluid for aircraft, ordnance and industrial use. It contains no viscosity index improvers and therefore, unlike conventional hydraulic fluids, it is not subject to polymeric breakdown. This product is compatible with MIL-H-5606G and MIL-PRF-6083F in all proportions.

Application

Brayco Micronic 883 is primarily designed as a fire resistant hydraulic fluid with superior corrosion resistance. MIL-PRF-46170E is intended for use as a direct replacement for MIL-PRF-6083.

Typical Characteristics

Name	Method	Units	Result
Specific Gravity @ 15.6°C	VN-TM-005 (ASTM D-287)	-	.85
API Gravity @ 60°F/15.6°C	VN-TM-005 (ASTM D-287)	N/A	34.9
Pounds per Gallon	Table 8 (VN-TM-005)	-	7.08
Viscosity, Kinematic 40C	ASTM D445	mm ² /s	15.6
Viscosity, Kinematic 100C	ASTM D445	mm ² /s	3.7
Viscosity, Kinematic -40C	ASTM D445	mm ² /s	2450
Sediment, Trace	ASTM D2273	ml	.001
Flash Point, COC	ASTM D92	°C(°F)	226 (440)
Fire Point, COC	ASTM D92	°C(°F)	252 (485)
Pour Point	ASTM D97	°C (°F)	-60 (-75)
Water Content	ASTM D6304	%	.02
Autoignition Temperature	ASTM E659	°C (°F)	380 (716)
Low Temperature Stability @ -40°C for 72 hours	FTM 3458	-	Pass
Rubber Swell, "L" 168 hrs @ 70 Deg C	ASTM D4289	%	17

Name	Method	Units	Result
Foam Sequence I, Tendency/Stability	ASTM D892	ml @ 24°C (75 °F)	10/0
Foam Sequence II, Tendency/Stability	ASTM D892	ml @ 93.5°C (200 °F)	10/0
Foam Sequence III, Tendency/Stability	ASTM D892	ml @ 24°C (75 °F)	10/0
Shell Four Ball Wear	ASTM D 4172	mm Scar 1200rpm, 1hr, 75°C (167 °F) @10kgf	.25
Shell Four Ball Wear	ASTM D 4172	mm Scar 1200rpm, 1hr, 75°C (167 °F) @40 kgf	.45
Particle Count automatic, 5-25 micron	VN-TM-013	Per 100ml	4000
Particle Count automatic, 50-100 micron	VN-TM-013	Per 100ml	36
Particle Count automatic, 25-50 micron	VN-TM-013	Per 100ml	4
Particle Count automatic, >100 micron	VN-TM-013	Per 100ml	1

Subject to usual manufacturing tolerances.

Additional Information

Temperature Range Brayco Micronic 745 is designed to operate over the temperature range of -45°C to 204°C (-50°F to 400°F). Specification Brayco Micronic 883 meets and is qualified under military specification MIL-PRF-46170E, Type I, Amendment 2.

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