



Product Data

Castrol Brayco 589 Corrosion Preventive Oil Gas Turbine Engine, Aircraft Synthetic Base

Description

Castrol Brayco™ 589 is intended for preservation of turboprop and turbojet engines. This corrosion preventative oil is capable of limited use, not to exceed 25 hours, as an aircraft engine lubricant, and can be used for both preservation and final acceptance runs of aircraft engines requiring MIL-PRF-7808 oils.

Temperature Range

The recommended operating temperature range for MIL-PRF-7808 type oils are from -54°C to 149°C (-65°F to 300°F).

Application

Brayco 589 is intended for preservation of turboprop and turbojet engines. This corrosion preventative oil is capable of limited use, not to exceed 25 hours, as an aircraft engine lubricant, and can be used for both preservation and final acceptance runs of aircraft engines requiring MIL-PRF-7808 oils.

Since Brayco 589 is a synthetic ester based fluid it may adversely affect certain paints and elastomers. Serious deterioration of rubber parts, coatings, paint, and other organic materials may result from use of this product in systems designed for use with petroleum based fluids. Customers should determine the compatibility of existing components and make any changes as required to accompany use of this fluid.

Shelf Life

Brayco 589 has a maximum recommended shelf life of 9 years from date of manufacture. This shelf life assumes that the product is stored in its original unopened packaging in ambient temperature conditions.

Specifications

Brayco 589 meets all the requirements of, and is qualified to MIL-PRF-8188D. This fluid is identified by NATO Code: C-638.

Typical Characteristics

Test	Method	Units	MIL-PRF-8188D REQUIREMENTS	Result
API Gravity @ 15.4°C	ASTM D287	degrees		15.4
Specific Gravity @16°C/60°F	Table 3			0.965
Density @16°C/60°F	Table 8	Lbs/gal		8.03
Kinematic Viscosity @100°C/212°F @40°C/104°F @-51°C/-60°F after 35 minutes	ASTM D445	cSt	3.25 Minimum 11.5 Minimum 17,000 Maximum	3.32 14 11,400
Flash Point, COC	ASTM D92	°C/°F	210/410 Minimum	226/440
Pour Point	ASTM D97	°C/°F	-60/-75 Maximum	-63/-80
Total Acid Number	ASTM D664	mg KOH/g	0.5 Maximum	0.11
Corrosion - Oxidation Stability 48 hrs @200°C/392°F Wt. Change Silver Aluminum Magnesium Steel Bronze Titanium Viscosity Change @40°C/104°F Total Acid Number Change	ASTM D4636	mg/cm ² mg/cm ² mg/cm ² mg/cm ² mg/cm ² mg/cm ² % change mgKOH/g	+0.2 +0.2 +0.4 +0.2 +0.4 +0.2 -5 to +25 4.0 Maximum	-0.02 0.00 0.00 0.00 -0.04 -0.05 5 - 10 0.5
Corrosion Test @232°C/450°F Silver, wt change Copper, wt change	ASTM 5305	g/m ²	±4.5 Maximum ±4.5 Maximum	0.0 -0.1
Rubber Swell, "H" Type	FTM 3604	%	12 to 35	28.6
Evaporation Loss, 6.5 hrs @ 205°C/401°F	ASTM D972	% wt	30 Maximum	15
Compatibility	Spec 4.4.4	Pass/Fail	Pass	Pass
Protection, Humidity Cabinet	ASTM D1748	Pass/Fail	Pass	Pass
Workmanship	Spec 3.6	Pass/Fail	Pass	Pass
Foaming, Static Volume, ml Collapse Time, seconds	FTM 3213	Pass/Fail	100 Maximum 60 Maximum	Pass Pass
Lead Corrosion, 1 hr @163°C/325°F	FTM 5321	g/m ²	40 Maximum	1.2

Subject to usual manufacturing tolerances.

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. User accepts all risks and liabilities if the product is used other than in the manner, with the precautions, or for the purpose(s) specified. Before using the product other than directed, please contact Castrol ILS for consultation.

Castrol Brayco 589
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All reasonable care has been taken to ensure that the information contained in this publication is accurate as of the date of printing. However, such information may, nevertheless, be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol Ltd products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.

Castrol Industrial North America Inc. 150 West Warrenville Road, 605 3E Naperville, IL 60563
Tel: (877) 641 1600 Fax: (877) 648 9801

www.castrol.com/industrial