



Product Data

Castrol Brayco 363 Lubricating Oil, General Purpose Low Temperature

Description

Castrol Brayco™ 363 is a highly refined blend of petroleum base stock and additives, which provide excellent resistance to oxidation, protection against rusting, and limits galvanic corrosion.

Application

Brayco 363 is designed for use as a general purpose, low-temperature lubricating oil for operation in the temperature range of -65°F to 250°F (-54°C to 122°C). It is especially useful where a light oil with a low evaporation rate which provides rust protection is required.

Shelf Life

Brayco 363 has a maximum recommended shelf life of 6 years from date of manufacture. This shelf life assumes that the product is stored in its original unopened packaging in ambient temperature conditions.

Specification

Brayco 363 meets the requirements of and is qualified to MIL-PRF-7870C. This fluid is identified by NATO Code Number: O-142.

Typical Characteristics

Test	Method	Units	MIL-PRF-7870C Requirements	Result
API Gravity	ASTM D287	degrees		28.8
Density @16°C/60°F	Table 8	Lbs/gal		7.3
Appearance	Table 8	Pass/Fail	Clear, transparent and uniform	Pass
Color, ASTM	ASTM D1500	Report	5 Maximum	<2
Viscosity @38°C/100°F @-40°C/-40°F	ASTM D445	cSt	10 Minimum 4000 Maximum	10.3 3500
Flash Point, COC	ASTM D92	°C/°F	130/265 Minimum	146/295
Pour Point	ASTM D97	°C/°F	-57/-70 Maximum	<-60/<-75
Precipitation Number	ASTM D91	ml	0	0
Copper Strip Corrosion, 3 hours @100°C/210°F	ASTM D130	Pass/Fail	1a Maximum	Pass
Corrosion-Oxidation Stability, 168 hours @122°C/250°F Corrosion, pitting, or etching Wt. change Copper Steel Aluminum Magnesium Cadmium No separation of insolubles or gumming Change in Viscosity @38°C/100°F Change in Neutralization No.	ASTM D4636	Report mg/cm2 mg/cm2 mg/cm2 mg/cm2 mg/cm2 Report % Report	None ±0.2 Maximum ±0.2 Maximum ±0.2 Maximum ±0.2 Maximum ±0.2 Maximum None -5 to +20 0.2 Maximum	None -0.035 +0.0003 +0.0004 +0.0071 +0.004 None +2 +0.1
Protection of panels, 100 hrs minimum	Spec 4.4.3 ASTM D1748	Pass/Fail	Pass	Pass
Low Temperature Stability, 72 hours @-54°C/-65°F	Spec 4.4.4	Pass/Fail	No gelling or separation	Pass
Evaporation Loss, 22 hrs @100°C/210°F	ASTM D972	% wt.	25 Maximum	18
Corrosivity Test, 10 days @ 27°C/80°F	Spec 4.4.5	Pass/Fail	No pitting, corrosion, or attack	Pass
Workmanship	Spec 3.7	Pass/Fail	Pass	Pass

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.

Brayco 363
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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.

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