



Lube Control Pty Ltd



Product Data Sheet

Calibration Oil 4113

Diesel Injector Test Fluid

Description

Castrol Calibration Oil 4113 is a low viscosity mineral oil based test fluid.

Application

Calibration Oil 4113 is a calibration and storage oil for diesel fuel injectors, conforming fully with ISO 4113 and Lucas CAV 7-10-106 (now obsolete) specifications. The rust preventative properties of this oil are such that, without cleaning of the equipment after calibration, proper functioning of the equipment is ensured after one years storage in normal conditions. Whilst Calibration Oil 4113 contains no harmful additives it is a light mineral oil and will have a de-fatting effect upon unprotected skin. Use of a barrier cream or other protection is recommended when in contact with this product.



Typical Characteristics

Name	Method	Units	4113
Appearance	Visual	-	Clear off-white liquid
Density @ 15°C	ISO 12185/ASTM D4052	g/ml	0.825
Viscosity, Kinematic 40C	ISO 3104/ASTM D445	mm²/s	2.53
Colour	ASTM D1500	-	0.5
Foam Sequence I, Tendency/Stability	ISO 6247/ASTM D892	ml/ml	20/0
Flash Point, PMC	ISO 2719/ASTM D93	°C	84
Pour Point	ISO 3016/ASTM D97	°C	<-30
Rust Test, Procedure A	ISO 7210/ASTM D665A	-	Pass
Rust Test	ASTM D1748	-	Pass
Copper Corrosion, 3hrs @ 100C	ASTM D130	-	1a
4 Ball wear test 300N 1450rpm/10s	ASTM D4172	mm	0.3
Lubricity HFRR	ISO 12156-1	microns	410

Subject to usual manufacturing tolerances

Calibration Oil 4113
02 Apr 2014
Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, to the extent that it is permissible by law to exclude warranties and representations, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. Refer to the MSDS, available from our website for further information. No responsibility is taken by either Castrol Australia , BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Australia Pty Limited - ABN 87 008 459 407 – 717 Bourke Street, Docklands Vic 3008
Technical Advice Line: 1300 557 998 Customer Service: 1300 722 088