



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	mm ² /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/°F	84/183
Pour Point	ISO 3016/ASTM D97	°C/°F	<-30/<-22
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

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