

Product data

Castrol Diesel Calibration Oil 4113

Product Description

Castrol Diesel Calibration Oil 4113 is a standardised calibration fluid for testing and calibrating diesel fuel injection

equipment. Castrol Diesel Calibration Oil 4113 may also be used as a storage oil for up to 12 months.

Applications

Castrol Diesel Calibration Oil 4113 is recommended where these injection equipment manufacturers specify SAE J967d or ISO 4113 - 1978 standards:

Allis – Chambers
American Bosch
Bacharach
Bendix
Caterpillar
Cummins
Detroit Diesel
General Electric's
International Harvester

John Deere
Kent More
Lucas
Mack
Onan
Cummins
Stanadyne
Waukasha Engineering

Typical Chemical & Physical Data

	<u>Units</u>	
Appearance		Clear, amber, mobile, fluid
Density @ 15°C	g/ml	0.83
Kinematic Viscosity @ 40°C cSt	mm ² /s	2.55
Flash Point (ASTM D56)	°C	85
Sulphur (ASTM D892 Seq.1)	%mass ml (5min. Air Blowing)	0.1 Foam Tendency 30
Foam Stability (ASTM D892 Seq.1)	ml (2min. settling)	0
Colour (ISO 2049)		1.0
Corrosion:		
ASTM D 130 Copper	3 hours @ 100°C #1	Pass
ASTM D 665A Steel	24 hours. No rust	Pass
FSTM 5322.1 Galvanic	10day. No corrosion	Pass



The following are additional requirements to meet Lucas - CAV and Robert Bosch specification.

Test	Lucas - CAV 7-10-106	Castrol Diesel Calibration Oil 4113 - typical figures
Pour Point	-18 max.	-45
Total Acidity	0.1 max.	0.003
Viscosity @ -12°C	30max.	11
Choking tendency (min.)	454L	Pass
Aromatic content , %	11max.	5
Ageing Test, IP114 (Acidity).	0.3max.	0.04
Sludge	0.05max.	NIL

Test	Robert Bosch 5-980-570-000-VS-665-01	Castrol Diesel Calibration Oil 4113 - Typical Figures
Colour ISO 2049	1.0 max.	1.0 max.
Wear protection - Bosch Modified 4 Ball Test	Must meet specification	Pass

Storage & Handling

<p>Lubricating oils should be stored in a cool dry environment away from direct sunlight and away from strong oxidizing agents (i.e. class 5.1 or 5.2). Repeated or prolonged contact with lubricants and industrial oils should be avoided to reduce the possibility of skin disorders.</p>	<p>A high standard of personal hygiene should be maintained when handling lubricants. Mineral or synthetic oils should not be allowed to enter ground water, water courses, sewerage or drainage systems. Refer to local waste authority and dispose of lubricant in a responsible manner.</p>
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All reasonable care has been taken to ensure that the information contained in this data sheet is accurate at the date of printing. The information is liable to variation, however, due to changes occurring subsequently in the blend formulation, or in the requirements of any specifications or approval relating to any of the products. No responsibility is accepted for the consequences of incorrect storage or improper methods of handling or application of the products.

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