



# TECHNICAL DATA

## GB UNIMOT® SYNTH 51 10W-40

### APPLICATIONS

GB UNIMOT® SYNTH 51 10W-40 is a fully synthetic heavy-duty diesel engine oil formulated using the highest quality synthetic base oils and enhanced additive systems for use in the latest low-emission Euro IV and Euro V heavy-duty diesel engines where a low SAPS product is required (sulphated ash, phosphorous and sulphur). Developed to maximise the life of the particulate trap filter and other exhaust after-treatment devices, it is backward compatible and therefore may also be used in older engines.

### PERFORMANCE FEATURES

GB UNIMOT® SYNTH 51 10W-40 has been developed for use in Euro IV and V engines fitted with diesel particulate filter traps and exhaust after-treatment devices and offers the following features:

- Low SAPS technology, ensuring protection of the exhaust after-treatment system
- Excellent anti-wear protection
- Rust and corrosion protection
- Effective control of soot, sludge and piston deposits
- Excellent oxidation and thermal stability
- Improved fuel economy
- Extended drain capability
- Suitability for use in older engines i.e. backward compatible

### PERFORMANCE DETAILS

The following Original Equipment Manufacturers' formal approvals have been obtained:

MB-Approval 228.51/228.5 RENAULT VI RLD/RLD-2/RXD	SCANIA Low Ash VOLVO VDS-3
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GB UNIMOT® SYNTH 51 10W-40 may be used where the following specifications are required:

ACEA E4/E6/E7 API CI-4 CATERPILLAR ECF-1a CUMMINS CES 20078 DAF Extended Drain Capability for XF series engines	DEUTZ DQC III-05 JASO DH-2 MAN M3277/M3477 MTU Type-3.1
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## **GB LUBRICANTS**

Albany Road Gateshead NE8 3BP  
Tel: 0191 490 4312  
Fax: 0191 477 9544  
e-mail: gblsales@gb-lubricants-fuels.co.uk  
www.gb-lubricants-fuels.co.uk

A division of Goodall Bates & Todd Ltd



Q 06093  
ISO 9001



EMS 72776  
ISO 14001



OHS 88475  
OHSAS 18001

# GB LUBRICANTS

**CHARACTERISTICS**

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS
<b>SAE</b>			<b>10W-40</b>
Appearance	-	-	Clear amber liquid
Kinematic Viscosity @ 100°C	cSt	ASTM D 445	12.9
Kinematic Viscosity @ 40°C	cSt	ASTM D 445	85.4
Viscosity Index	-	ASTM D 2270	150
Density	kg/m <sup>3</sup>	ASTM D 4052	863
CCS @ -25°C	mPas	ASTM D 5293	6480
MRV @ -30°C	mPas	ASTM D 4684	22200
Viscosity after shearing (90 cycles)	cSt	CEC L-14-A-93	12.5
Flash Point	°C	ASTM D 92	236
Pour Point	°C	ASTM D 97	-36
TBN	mgKOH/g	ASTM D 4739	10.0
TAN	mgKOH/g	ASTM D 664	2.8
HTHS	mPas	CEC L-36-A-97	3.7
Evaporative loss	%	CEC L-40-A-93	9.5
Sulphated ash	mass %	ASTM D 874	1.0

**STORAGE AND HANDLING**

GB UNIMOT® SYNTH 51 10W-40 should be stored under cover to avoid water collecting in the rim of upturned barrels.

**HEALTH, SAFETY AND THE ENVIRONMENT**

Further information on GB UNIMOT® SYNTH 51 10W-40 can be obtained by referring to the corresponding Material Safety Data Sheet.

For guidance on storage and handling of all lubricants and related products, GB Lubricants recommend the Environment Agency, [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk), as an excellent source of advice.

If you have any queries, please do not hesitate to contact either your local Technical Sales Representative or our Technical Department.

The Company policy is to ensure that a range of products is supplied which complies with the latest specifications and codes within the relevant industry. As part of this development process, we therefore reserve the right to amend formulations and specifications, without prior notice.