



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:

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| 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 IV-10-LA JASO DH-2 MAN M3277/M3477 MTU Type-3.1 |
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Integrated Management System
PAS 99 IIR 560337
ISO 9001
ISO 14001
OHSAS 18001

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CHARACTERISTICS

| TEST | UNIT | METHOD | TYPICAL PHYSICAL CHARACTERISTICS |
|--------------------------------------|-------------------|---------------|----------------------------------|
| SAE | | | 10W-40 |
| 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 ³ | 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, 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.