



# TECHNICAL DATA

## GB UNIMOT® SYNTH FE PLUS 5W-30

### APPLICATIONS

GB UNIMOT® SYNTH FE PLUS 5W-30 is a top tier fuel-efficient heavy-duty diesel engine oil formulated using the highest quality synthetic technology base oils and enhanced additive systems, for use in the latest low-emission Euro IV, Euro V and Euro VI heavy-duty diesel engines, where an oil of this quality is specified. Based on low SAPS technology (sulphated ash, phosphorus and sulphur), this premium engine oil maximises the life of diesel particulate filters (DPF) and other exhaust after-treatment systems. GB UNIMOT® SYNTH FE PLUS 5W-30 meets the latest MAN and Scania Euro VI engine requirements with improved fuel economy and extended drain capability, even under severe operating conditions. The performance profile of GB UNIMOT® SYNTH FE PLUS 5W-30 allows the potential for product rationalisation in mixed fleets combining a number of different manufacturers, models and engine technologies.

### PERFORMANCE FEATURES

GB UNIMOT® SYNTH FE PLUS 5W-30 has been developed to deliver outstanding performance with extended drain intervals and proven fuel economy and offers the following features:

- Outstanding performance across a wide range of EGR, SCR and DPF technologies
- Low SAPS technology, ensuring protection of the exhaust after-treatment system
- Outstanding engine protection, reducing wear and corrosion
- Effective control of soot, sludge and piston deposits
- Excellent oxidation and thermal stability
- Proven fuel economy benefits
- Excellent low temperature and cold-start performance
- Extended drain capability

### PERFORMANCE DETAILS

The following Original Equipment Manufacturers' approvals have been obtained:

MACK EOS-4.5	RENAULT VI RLD-3	SCANIA LDF-4 (verified by Scania CV AB)	VOLVO VDS-4.5
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GB UNIMOT® SYNTH FE PLUS 5W-30 may also be used where the following specifications are required:

	API CK-4	DAF PSQL 2.1E-LD
	ACEA E4, E7, E8, E11	DETROIT DIESEL 93K218, 93K222
	CATERPILLAR ECF-3	DEUTZ DQC IV-18 LA
	CUMMINS CES 20081, 20086	JASO DH-2-17
	DAIMLER TRUCK DTFR 15C120 (MB 228.52)	MAN M3777/M3677/M3775
	DAIMLER TRUCK DTFR 15C110 (MB 228.51)	MAN M3271-1/ M3477
	DAIMLER TRUCK DTFR 15C100 (MB 228.31)	MTU Type 3.1

*Suitable for extended drain in DAF Euro VI compliant engines.*

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## **GB LUBRICANTS**

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**CHARACTERISTICS**

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS
<b>SAE</b>			<b>5W-30</b>
Appearance	-	-	Clear amber liquid
Kinematic Viscosity @ 100°C	cSt	ASTM D445	12.3
Kinematic Viscosity @ 40°C	cSt	ASTM D445	74.6
Viscosity Index	-	ASTM D2270	162
Density	kg/m <sup>3</sup>	ASTM D4052	858
TBN	mgKOH/g	ASTM D4739	12.6
Pour Point	°C	ASTM D97	-42
Flash Point	°C	ASTM D93	190

**STORAGE AND HANDLING**

GB UNIMOT® SYNTH FE PLUS 5W-30 should be stored under cover to avoid water collecting in the rim of upturned barrels.

Further information on GB UNIMOT® SYNTH FE PLUS 5W-30 can be obtained by referring to the corresponding Safety Data Sheet.

***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 without prior notice.***