



# Geotex<sup>®</sup> Multigrade 15W-40

## High performance natural gas engine lubricant

### Customer benefits

#### Advanced additive technologies

Geotex Multigrade 15W-40 is an advanced performance, highly shear stable heavy-duty automotive gas engine lubricant.

Formulated from high quality base stocks and superior performance additive technology, Geotex Multigrade is designed for use in spark ignited engines running on natural gas, compressed natural gas (CNG), or liquefied petroleum gas (LPG). This product is also suitable for engines running on low-sulphur diesel or gasoline, and engines equipped with certain types of catalytic exhaust systems.

#### High durability protection

Geotex Multigrade delivers high performance wear protection to highly loaded engines operating under demanding conditions. It offers maximum protection to assemblies such as cam followers, or valve trains. Throughout the engine, Geotex Multigrade provides high-level engine cleanliness, preventing harmful deposit formation through advanced viscosity control, resisting oil oxidation and thickening.

This advanced viscosity control also ensures this high performance product retains its fluidity in very low temperature engine start situations, maximising wear protection as well as optimising oil consumption performance under variable engine load and speeds.

### Product features

**Geotex Multigrade delivers outstanding wear protection and engine cleanliness to highly loaded automotive engines running on a variety of fuels, including LPG, CNG and low sulphur diesel and gasoline.**

## Applications

- Recommended for automotive gas engines in trucks or buses, where natural gas, CNG or LPG fuel is specified, and diesel or gasoline engines running on low-sulphur fuels.
- For use in engines equipped with an exhaust catalyst, the catalyst manufacturer's specifications should be consulted regarding zinc, phosphorus and sulphated ash level limits.

## Approvals, performance and recommendations

### Approvals

- MAN M 3271-1
- MB-Approval 226.9
- DAF DAF HP-gas/Leyland

### Performance

- API SG/CE
- MIL-L-2104-E
- MIL-L-46152-D

Geotex Multigrade 15W-40 meets and exceeds to the requirements of the following engine manufacturers:

- Allison C-3
- Caterpillar TO-2
- MACK EO-K/2
- Cummins NTC 400

Geotex Multigrade 15W-40 also meets the requirements of IVECO, MAN, Daimler and Volvo.

Typical test data		
Test	Test methods	Results
<b>Viscosity Grade</b>		<b>15W-40</b>
Density, 15°C, kg/l	ASTM D4052	0.88
Visc, Kinematic, 40°C, mm <sup>2</sup> /s	ISO 3104	100
Visc, Kinematic, 100°C, mm <sup>2</sup> /s	ISO 3104	13.8
Viscosity Index	ISO 2909	139
HTHS, 150°C, mPa.s	CEC-L-36-A-90	3.8
Pumpability –25°C, mPa.s	ASTM D4684	26000
Pour Point, °C	ISO 3016	-33
Flash Point COC, °C	ISO 2592	230
Noack volatility, %wt	CEC-L-40-A-93	12.9
Total Base Number, mgKOH/g	ISO 3771	8.6
Sulphated Ash, %wt	ASTM D0874	1.0
Colour	ISO 2049	<3.5

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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**Health, safety, storage and environmental** Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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