

# PRODUCT INFORMATION



*Lubricants - Engine Oil - Passenger Car Motor Oils*

Version: 045/07b

## Valvoline™ All-Climate Motor Oil SAE 10W-40

High quality motor oil. Formulated with the use of synthetic technology for year round performance. Proven and trusted technology for broad range of diesel, petrol and LPG engines.

### Performance levels

ACEA A3/B4

API: SL/CF

Recommended by Valvoline for use in engines specifying VW 50500, VW 50101 or MB-229.1

Recommended for use where Fiat 9.55535.D2 and G2 is specified.

### Applications

Formulated for passenger cars, light commercial and 4WD vehicles running on diesel, petrol or LPG fuels where in ACEA A3/B4 motor oils or API SL/CF SAE 10W-40 is recommended.

### Features & Benefits

#### Year round performance

All-Climate engine oils are formulated for year round performance. Meeting industry performance levels.

#### Broad vehicle application

High quality formulation suitable for a wide range of vehicles.

#### Cold start performance

Instant oil flow at low temperatures provides easy cold starts and optimal lubrication within seconds after ignition.

#### Wear protection

Strong oil film provides protection against wear under all operating conditions.

#### Engine cleanliness

Through the use of detergent additives the engine is kept in good condition.

#### Deposit control

Prevents forming of sludge and harmful deposits inside the engine.

#### Breakdown resistance

Thermal and oxidation stable oil film resists oil breakdown.

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## Keeping the world moving since 1866™

Serving more than 100 countries around the globe, Valvoline is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants; transmission fluids; gear oils; hydraulic lubricants; automotive chemicals; specialty products; greases, and cooling system products.

For more information on Valvoline products, programs and services please visit [www.valvolineeurope.com](http://www.valvolineeurope.com)

## Typical properties

Typical property characteristics are based on current production. Whilst future production will conform to Valvoline specifications, variations in these characteristics may occur.

All-Climate Motor Oil	
SAE Viscosity Grade	10W-40
Viscosity, mm <sup>2</sup> /s @ 100 °C. ASTM D-445	14
Viscosity, mm <sup>2</sup> /s @ 40 °C. ASTM D-445	97
Viscosity Index ASTM D-2270	146
Viscosity, mPa.s -25°C. ASTM D-5293	<7000
TBN, mg KOH/g ASTM D-2896	10
Pour Point, °C ASTM D-5949	-39
Specific Gravity @ 15.6°C. ASTM D-4052	0,871
Flash Point, COC, °C. ASTM D-92	226

**This information only applies to products manufactured in the following location(s): Europe**

## Health & Safety

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet <http://sds.valvoline.com>

## Protect the environment

Take used oil to an authorized collection point. Comply with local regulations. Do not discharge into drains, soil or water.

## Storage

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

Replaces – 045/07a

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