

*Lubricants - Engine Oil - Passenger Car Motor Oils*

Version: 045/03e

## Valvoline™ All-Climate Motor Oil SAE 5W-40

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

### Performance levels

ACEA A3/B3, A3/B4

API: SN/CF

GM-LL-A-025, GM-LL-B-025

MB-229.3

Porsche A40

Renault RN0700/RN0710

VW 50200/50500

### Applications

Formulated for petrol, diesel or LPG engines of passenger cars, delivery vans, persons minibuses, campers.

For modern engines with turbochargers, catalytic converters and long drain intervals.

### 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. Exceeds the ACEA A3/B3 limits for piston cleanliness in the Volkswagen TDI engine test.

#### Deposit control

Prevents forming of sludge and harmful deposits inside the engine.

#### Breakdown resistance

Thermal and oxidation stable oil film resists oil breakdown.

# PRODUCT INFORMATION



## 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	
<b>SAE Viscosity Grade</b>	5W-40
<b>Viscosity, mm<sup>2</sup>/s @ 100 °C.</b> ASTM D-445	14,2
<b>Viscosity, mm<sup>2</sup>/s @ 40 °C.</b> ASTM D-445	87
<b>Viscosity Index</b> ASTM D-2270	169
<b>Viscosity, mPa.s -30°C.</b> ASTM D-5293	<6600
<b>TBN, mg KOH/g</b> ASTM D-2896	10,1
<b>Pour Point, °C</b> ASTM D-5949	-45
<b>Specific Gravity @ 15.6°C.</b> ASTM D-4052	0,857
<b>Flash Point, COC, °C.</b> ASTM D-92	224

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

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## 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://msds.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 – 045/02e