

Lubricants - Engine Oil - Passenger Car Motor Oils

Version: 045/05f

## Valvoline™ All-Climate Motor Oil C3 SAE 5W-40

High quality full synthetic motor oil. Formulated for year round performance. Proven and trusted technology for a broad range of engines. Especially suitable for turbo charged diesel engines.

Performance levels
ACEA C3
API: SM, SN/CF
BMW LL-04
MB-226.5, 229.31
Ford WSS-M2C917-A
GM Dexos 2
Porsche A40
Renault RN0700/0710
VW 50500 / 50501

### Applications

Suitable for a wide range of engines. Especially suitable for turbo charged diesel engines of passenger cars and light trucks

Recommended for Volkswagen Unit Injector diesel engines (< 2000, Pumpe Düse Motoren). But also suitable for modern engines with Diesel Particle Filter(DPF) or Three Way Catalyst systems TWC.

### 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 use of detergent additives the engine is kept clean and 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

#### Fuel Economy

Low viscosity and special additives result in maximum reduction of friction which results in a lower fuel consumption.

# 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.

<b>All-Climate Motor Oil C3</b>	
<b>SAE Viscosity Grade</b>	5W-40
<b>Viscosity, mm<sup>2</sup>/s @ 100 °C.</b> ASTM D-445	14,3
<b>Viscosity, mm<sup>2</sup>/s @ 40 °C.</b> ASTM D-445	87
<b>Viscosity Index</b> ASTM D-2270	171
<b>Viscosity, mPa.s -30°C.</b> ASTM D-5293	<6400
<b>TBN, mg KOH/g</b> ASTM D-2896	7,5
<b>Pour Point, °C</b> ASTM D-5949	-48
<b>Specific Gravity @ 15.6°C.</b> ASTM D-4052	0,854
<b>Flash Point, COC, °C.</b> ASTM D-92	222

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

™ Trademark of Valvoline, registered in various countries © 2018

All statements, information and data presented herein are believed to be accurate and reliable, but are not to be taken as a guarantee, an express warranty, or an implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which Ellis Enterprises B.V. and its affiliates assume legal responsibility.

## 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 – 045/04f