

# Product Information



A PRODUCT OF ASHLAND CONSUMER MARKETS, A COMMERCIAL UNIT OF ASHLAND INC.

*Lubricants - Engine Oil - Passenger Car Motor Oils*

Version: 045/01f

## Valvoline™ All-Climate SAE 5W-40 Diesel C3

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

| Performance levels       |
|--------------------------|
| ACEA C3                  |
| ACEA A3/B4-04            |
| 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 50200 / 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.

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## Health & Safety

For the health and safety related properties of this product reference is made to the Safety Data Sheet (SDS). A Safety Data Sheet is available on request via your local sales office or via the internet @

<http://msds.ashland.com>

## Protect the environment

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

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

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

## 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 including MaxLife™, the first motor oil specifically formulated for higher-mileage vehicles; 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.valvolineurope.com](http://www.valvolineurope.com)

## Author:

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