Product Information

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

Lubricants - Engine Oil - Passenger Car Motor Oils

Version: **055/05**

Valvoline™ All-Climate Extra 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: SM, SN/CF
MB-229.1
Renault RN0700
Recommended by Valvoline for use in engines specifying VW 50500 or VW 50101
Recommended for use where Fiat 9.55535.D2 and G2 is specified.

Applications

Formulated for turbo and non-turbocharged diesel, petrol and LPG engines.

Can be used in passenger cars, light trucks, stationary engines.

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.

Biofuel compatibility
Suitable for engines running on biofuel mixtures (for example E85).

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.

Fuel Economy
The product meets the API SN specification and with that it offers fuel economy.

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Health & Safety
This product is not likely to present any significant health or safety hazards when used correctly in the right application. A Safety Data Sheet (SDS) 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 Extra Motor Oil	
SAE viscosity grade	10W-40
Viscosity, mm^2/s @ 100 ºC. ASTM D-445	14
Viscosity, mm^2/s @ 40 ºC. ASTM D-445	96
Viscosity Index ASTM D-2270	149
Viscosity, mPa.s –25°C. ASTM D-5293	<6800
TBN, mg KOH/g ASTM D-2896	10
Pour Point, ºC ASTM D-5949	-39
Specific Gravity @ 15.6°C. ASTM D-4052	0,875
Flash Point, COC, ºC. 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.valvolineeurope.com**

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