



# Havoline® Energy EF

Ultra high performance fuel conserving synthetic multigrade engine lubricant

Product Data Sheet

## Product description

Havoline Energy EF is an ultra high performance fuel conserving synthetic 5W-30 multigrade engine lubricant formulated for use in passenger cars and light commercial vehicles.

Formulated with synthetic base stocks and an advanced technology additive combination, Havoline Energy EF is designed to contribute reduced levels of sulphated ash, phosphorus and sulphur (low SAPS) in service. This advanced additive combination also contains friction modifiers to assist increased fuel economy, while helping reduce exhaust emissions and other pollutants.

## Customer benefits

- Contributes to the extended service life and efficiency of car emission reduction systems without compromising engine durability
- Low ash-forming (low SAPS) additives help reduce harmful deposit build-up in vehicle diesel particulate filters (DPFs)
- Low phosphorus and sulphur content assists increased three-way catalytic convertor and other after-treatment system service life
- Assists in the maintenance of improved fuel economy over extended oil drain periods

## Applications

- Havoline Energy EF 5W-30 is recommended for use as a catalyst compatible oil in high performance gasoline and diesel passenger cars and light duty diesel vans equipped with DPFs and TWCs that require low friction, low viscosity, low SAPS oils. This oil will help increase DPF and TWC life and maintain vehicle fuel economy
- This engine lubricant can also be used where an SAE 5W-30 grade ACEA A5/B5 oil is specified

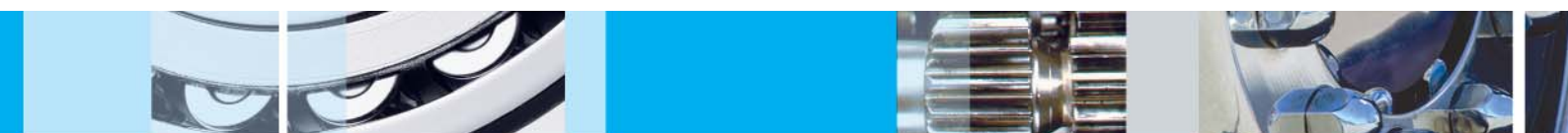
## Product highlights:

- Synthetic low SAPS lubrication technology
- Helps protect 3-way catalysts, DPFs and other exhaust after treatment systems
- Contributes to extended exhaust after treatment system life
- Helps increase engine service life
- Assists extended fuel economy
- Suitable for gasoline and diesel engines
- Selected specification standards include:
  - ACEA

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**Caution:** Havoline Energy EF 5W-30 is a low viscosity, low SAPS product and may not be suitable for use in certain engines that require high viscosity grade oils or in markets with high fuel sulphur content.

## Approvals and performance

### Performance

- ACEA C1  
A5/B5

## Typical test data

HAVOLINE ENERGY EF TEST	TEST METHODS	RESULTS
<b>Viscosity Grade</b>		<b>5W-30</b>
<b>Product Code</b>		<b>01373</b>
Density, 15 °C, kg/l	ASTM D4052	0.848
Kinematic viscosity, 40 °C, mm <sup>2</sup> /s	ASTM D445	55.0
Kinematic viscosity, 100 °C, mm <sup>2</sup> /s	ASTM D445	10.0
Viscosity Index	ASTM D2270	170
Pour Point, °C	ASTM D97	-36
Flash Point COC, °C	ASTM D92	226

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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**Health, safety, storage and environmental** Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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