



CALTEX

Havoline® Energy

Synthetic, Energy Conserving Passenger Car Motor Oil

Product Data Sheet



Customer benefits

Superior fuel economy

Synergistic combination of synthetic base fluids, oil soluble friction modifiers and a selected detergent/inhibitor system achieves very low friction coefficients. Viscosity characteristics are carefully chosen to minimize fluid frictional losses while providing adequate oil film thickness under all operating temperatures.

Long engine life

Metallic detergent and ashless dispersant additive system helps prevent engine failure, even under severe operating conditions, by providing superior control of ring belt and piston skirt deposits. Excellent low temperature viscosity characteristics ensure that vital engine components are lubricated quickly at start-up, even at very low temperatures.

Reduced maintenance costs

Proven thermal stability and oxidation resistance minimizes in-service oil degradation which contributes to filter blocking and sludge formation in the oil galleries, crankcase and valve train.

Low oil consumption

Very high viscosity index synthetic base oils control oil flow through the ring belt area by maintaining oil viscosity, and reduce oil evaporation at the elevated piston temperatures experienced under even very severe operating conditions.

Applications

- Gasoline and light duty diesel engines in modern passenger cars and light commercial vehicles.
- Particularly suitable for use in engines where oils meeting Ford specifications WSS-M2C913-D and WSS-M2C-913C are specified. These Ford approvals are also backwards compatible to WSSM2C913-B and WSS-M2C913A.

Product features:

- **Havoline® Energy** is a premium performance, friction modified multigrade motor oil formulated for use in modern passenger car and light truck gasoline and diesel engines.
- **Havoline® Energy** is certified against ACEA European Oil Sequences ACEA A1/B1 and A5/B5. It is formulated from high performance additive technology and synthetic base stocks to promote engine durability and improved fuel economy.

Typical key properties

HAVOLINE® ENERGY	
SAE Grade	5W-30
Product Code	500210
Phosphorus, m %	0.10
Sulfated Ash, m %	1.10
Viscosity,	
mm ² /s @ 40°C	51.0
mm ² /s @ 100°C	9.5
Viscosity Index	174
Zinc, m %	0.11

1412

Performance standards

- ACEA A1/B1, A5/B5
- API SL/CF

Approved against :

- Ford WSS-M2C913-D
- Ford WSS-M2C913-C
- Renault RN 0700

ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit: www.havoline.com.

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by:
Chevron Lubricants
– Asia Pacific