

HAVOLINE ENERGY 5W-30

Havoline Energy 5W-30 is a unique fuel efficient engine oil of very high performance which satisfies the needs of passenger cars and light commercial vehicles including vans, with either gasoline or diesel engines.

Havoline Energy 5W-30 has been formulated from a very special non-conventional base oil, together with advanced high performance additive components in order to provide excellent durability for long life performance, wear protection, low temperature performance, reduced emissions and unsurpassed fuel efficiency.

Havoline Energy 5W-30 meets the lubrication requirements of gasoline and diesel engines, including turbocharged engines, the most up to date lean burn gasoline engines and engines equipped with catalytic converters.

Benefits

Reduced Fuel Consumption - Fuel consumption data obtained in co-operation with major European car manufacturers and by field testing in a variety of European vehicles, have demonstrated fuel savings of up to 6%.

Reduced Emissions - Texaco has been working with car manufacturers to develop engine oils to assist in the reduction of CO2 emissions in line with the '92 Rio and '97 Kyoto Environmental conferences, by reducing fuel consumption throughout the life of the engine.

Complete Engine Protection - Havoline Energy 5W-30 provides protection against starting friction, heat stress and the formation of harmful engine deposits, sludge and varnish.

Superior Low Temperature Performance - The excellent wide range viscosity-temperature characteristics and exceptional low-temperature fluidity of Havoline Energy 5W-30 ensures oil gets pumped to all parts of the engine quickly to protect against starting friction and wear.

Reduced Engine Noise - The excellent frictional characteristics of Havoline Energy 5W-30 have been shown to reduce engine noise by reducing metal to metal contact within the engine and so reducing wear.

Reduced Frictional Losses - Tests have shown that Havoline Energy 5W-30, when evaluated under identical operating conditions, provides more engine power when compared with a fully synthetic 5W-40, thereby ensuring increased performance levels.

Race Proven - Havoline Energy 5W-30 has contributed to race wins in a variety of racing series, including Formula 1; Saloon Cars; Single Seater Racers; Rally Cars and Stock Cars and will continue to help race teams enter the winners circle.

Applications

Havoline Energy 5W-30 is suitable for gasoline and diesel engines, both turbocharged and naturally aspirated, requiring an SAE 5W-30, API SJ/SH; ACEA:A1-98; ACEA:B1-98; CCMC G5/PD2, and offers an excellent level of protection against black sludge, wear and oil oxidation together with the highest level of fuel efficiency.

Standards and Approvals

Havoline Energy 5W-30 surpasses the following international gasoline and diesel engine oil performance standards and approvals:

Certified against ACEA: A1-98; ACEA:B1-98

Licensed as: API SJ/Energy Conserving and ILSAC GF-2

Manufacturers Approval: Ford WSS-M2C913-A and WSS-M2C912-A1

Health and Safety

Havoline Energy 5W-30 has been formulated to the highest safety standards and is unlikely to present any significant health and safety hazards when used properly in the recommended application, and when good standards of industrial and personal hygiene are maintained.

However, should eye contact occur, flush for a minimum of 15 minutes with clean water.

A comprehensive Materials Safety Data Sheet is available on request and is supplied as a matter of course to purchasers of this product.

Typical Data

Density at 15 °C, kg/l	0.85
Flash point (COC), °C	206
Pour point, °C	-48
Kinematic viscosity, mm ² /s	
at 40 °C	53.5
at 100 °C	10.45
Apparent viscosity, mPa.s	
at -25 °C	2150
at -30 °C	4600
Pumpability , mPa.s	
at -30 °C	6250
at -35 °C	15000
Sulphated ash, % wt	0.85
Noack volatility, % wt	14.5
Phosphorus, %wt	0.1