## **Havoline Motor Oil API SJ**



Passenger Car Motor Oil

#### Product description

High quality, shear-stable, multigrade engine oil for use in a wide range of gasoline and gas fuelled (natural gas, LPG/CNG) engines passenger car and light-duty commercial vehicle engines where API SJ performance lubricants are required. It provides a high level of protection against starting friction, heat stress and engine deposits.

#### Customer benefits and product features

#### **Customer benefits**

- Long engine life Proven metallo-organic anti-wear additive system resists wear under all operating
  conditions by forming a protective layer on contact surfaces. Multigrade viscosity provides additional
  protection against wear at start-up and under high temperature operating conditions as compared with
  monograde oils of similar performance. High thermal and oxidation resistance protects against CNG related
  valve deposits.
- Preserves power and performance Metallic detergent and ashless dispersant additive system preserves
  power and performance by providing good control of piston and ring deposits under high temperature
  conditions.
- Saves on maintenance Very good thermal and oxidation stability resists in-service oil degradation that contributes to filter blocking and sludge formation.

### **Applications**

- Naturally aspirated and turbocharged gasoline engines in passenger cars where API SJ or lower performance oils are specified.
- Spark ignition engines fuelled with gas (CNG and LPG) or fitted with gas/ gasoline dual fuel systems in passenger cars or light commercial vehicles.
- Light truck gasoline engines where API SJ or lower performance oils are specified.
- Four-stroke gasoline engines in portable power equipment where the manufacturer recommends conventional passenger car motor oils of API SJ or lower performance.

Not recommended for use in diesel engines, motorcycle engines, or gasoline engines that require API SL or higher performance oils.

## Product approvals, performance and recommendations

#### **Performance**

- API SJ
- Suitable for use also where API SG, SF or SE oils are specified.

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### Typical test data

HAVOLINE® MOTOR OIL	RESULTS			
SAE Grade	5W-30	10W-30	15W-40	20W-50
Product Code	500013	500014	500015	500016
Base No., D2896, mg KOH/g D4739, mg KOH/g	5.7 5.4	5.7 5.4	5.7 5.4	5.7 5.4
Phosphorus, m %	0.101	0.101	0.101	0.101
Sulfated Ash, m %  Viscosity,  mm²/s @ 40°C	0.88 65.9	0.88 73.7	0.88	0.88
mm²/s @ 100°C Viscosity Index	10.9	136	136	19.1
Zinc, m %	0.11	0.11	0.11	0.11

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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 the <u>Product Information Center</u>.

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center