



Havoline® Formula Multigrade

Proven performance gasoline engine oils

Product Data Sheet

Product description

Havoline Formula Multigrade SAE 10W-30 and SAE 20W-50 are proven performance, highly shear stable mineral oil based gasoline engine oils.

Havoline Formula Multigrade is suitable for passenger car and light truck applications requiring API SL, SJ and SH performance, and provides good levels of wear protection at start-up and at high operating temperatures.

Customer benefits

- Proven metallo-organic anti-wear additives prevent engine wear under all driving conditions
- Reliable multigrade viscosity prevents wear at start-up and protects engines in high-temperature operation
- Metallic detergency and ashless dispersancy additives resist high temperature piston and ring deposit formation
- Robust thermal stability and oxidation resistance prevents high temperature oil degradation, filter blocking and harmful black sludge formation
- Highly shear-stable viscosity improver controls oil flow through piston rings, reducing oil consumption

Applications

- Naturally aspirated and turbocharged gasoline engines in passenger cars
- Light truck gasoline engines
- Gas-fuelled (natural gas and LPG) spark ignition engines where conventional passenger car motor oils are recommended
- Four-stroke gasoline engines in portable power equipment where the manufacturer recommends conventional passenger car motor oils

Product highlights:

- Proven wear protection
- Wide temperature Multigrade performance
- Keeps engines clean
- Selected specification standards include:
 - API

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Approvals and performance specifications

Performance specifications

- API SL (also meets SJ, SH, SG, SF)
- API CF

Typical test data

HAVOLINE FORMULA MULTIGRADE			
TEST	TEST METHODS	RESULTS	
Viscosity Grade		10W-30	20W-50
Product Code		500257.21	500259.29
Density, 15 °C, kg/l	ASTM D4052	0.88	0.89
Kinematic viscosity, 100 °C, mm ² /s	ASTM D445	11.0	19.1
Total Base Number, mg KOH/g	ASTM 2896	7.5	7.5
Elemental Analysis			
- Calcium, %wt	X-Ray/ICP	0.22	0.22
- Zinc, %wt	X-Ray/ICP	0.10	0.10

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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