

Synthetic Blend GF-5/SN Passenger Car Engine Oil

*Improved Performance for Engine Protection and Fuel Economy
API Service Fill SN and GF-5 In Appropriate Grades
State-Of-The-Art Passenger Car Engine Oils*

DESCRIPTION

BioGreen UltraGard Synthetic Blend Engine Oils are designed to give the ultimate in engine protection for all passenger cars, SUV's and light trucks manufactured or sold in North America. These oils use state-of-the-art additives blended with full synthetic and hydrocracked basestocks to meet the highest requirements of the API and all OEM's for warranty coverage and engine protection under severe conditions.

When used according to manufacturers recommendations, these oils are fully certified for oil change intervals of 5000 or more miles. Extended drain intervals are determined by type of driving and may be 7,500 miles or more in certain conditions. Synthetic and hydrocracked base oils offer maximum resistance to high temperature oxidation and exceptional low temperature performance. **BioGreen UltraGard Synthetic Blend Engine Oils** will stay in grade for extended periods, even under extreme operating conditions.

BioGreen UltraGard Synthetic Blend Engine Oils meet all 2013 OEM warranty requirements and may be used in any vehicle sold in North America where API SN, SM, SI, SJ, CF or earlier designations are recommended. These oils are API approved and licensed. All grades meeting demanding global ILSAC GF-5 requirements for volatility and oxidation resistance.

BENEFITS

- ✓ Biodegradable;
- ✓ Compatible with petroleum oils - no flushing necessary;
- ✓ Readily recyclable;
- ✓ Superior performance while protecting wildlife, vegetation and the environment;
- ✓ Improved engine robustness and cleanliness;
- ✓ Improved fuel economy and fuel economy retention;
- ✓ Extended emission control and catalyst protection;
- ✓ Added oil emulsion specification for E85 vehicle protection;
- ✓ Outstanding energy conserving properties for highest mileage;
- ✓ Outstanding anti-wear, oxidation control and friction control.



APPLICATION ✓ All passenger cars, light trucks and SUV's sold in North America;
 ✓ Police and other municipal fleets where maximum mileage and minimum maintenance is desired;
 ✓ Individual car owners seeking higher levels of engine protection than conventional oils.

HEALTH SAFETY This product is not classified as hazardous under OSHA definition, simply wash with soap and water after handling. Health & Safety information is printed in the MSDS sheet available on request. This product should not be used for purposes other than its intended use. Typical properties may vary slightly due to product research & development, information may change without notification.

PERFORMANCE LEVELS API ILSAC Energy Conserving SN, SM, SH / CF and all earlier passenger car designation GF-5 in all grades All grades

| TYPICAL PROPERTIES | METHOD | 5W-20 | 5W-30 | 10W-30 | 10W-40 |
|-----------------------------|---------|-------|-------|--------|--------|
| API Gravity | D 4052 | 32.5 | 32.9 | 34.0 | 32.2 |
| Viscosity cSt @ 40°C | D 445 | 55.4 | 67.2 | 60.3 | 87.3 |
| Viscosity cSt @ 100°C | D 445 | 9.1 | 11.1 | 9.8 | 13.8 |
| Viscosity Index | D 2270 | 146 | 157 | 147 | 162 |
| Cold Crank Simulation (cP) | D5293 | | | | |
| | @ -30oC | 4685 | 4953 | - | - |
| | @ -25oC | - | - | 5974 | 5680 |
| NAOCK Volatility (%) | D 5800 | 8.3 | 9.1 | 12.5 | 11.5 |
| Neutralization Number (TBN) | D 2896 | 6.5 | 6.6 | 6.6 | 6.4 |
| Pour Point °C | D 97 | -41 | -40 | -35 | -32 |
| Flash Point, COC °C | D 92 | 228 | 222 | 226 | 222 |