G-Energy Synthetic Super Start 5W-30

Fully Synthetic Passenger Vehicle Engine Oil

Features

- Advanced fully synthetic formula
- Lower ash additive package
- Excellent low temperature performance
- Wear protection
- Deposit control

Advantages and Potential Benefits

- Excellent overall lubrication and wear protection performance for many driving styles
- Optimized for use with emission control systems like DPF (Diesel Particulate Filter) and TWC (Three Way Catalyst) to keep them in optimal conditions
- Instant oil flow at low temperatures provides easy cold starts and optimal lubrication from the first seconds after ignition
- Strong oil film provides protection against wear under all operating conditions for long engine life
- Prevents forming of sludge and harmful deposits through the use of advanced detergent additives for engine cleanliness

Applications

- Turbo-charged and direct injection high performance gasoline and diesel engines
- Cars with environmental friendly exhaust systems, like EGR, DPF and TWC
- Passenger cars, SUV’s, light trucks and vans

Recommendations

- ACEA C3
- API SN/CF
- General Motors dexos2™
- MB 229.52
- VW 502.00/505.01

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Typical Characteristics

<table>
<thead>
<tr>
<th>Properties</th>
<th>Method</th>
<th>G-Energy Synthetic Super Start 5W-30</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE Viscosity Grade</td>
<td>SAE J300</td>
<td>5W-30</td>
</tr>
<tr>
<td>Kinematic Viscosity @40°C, mm²/s</td>
<td>ASTM D445</td>
<td>67.5</td>
</tr>
<tr>
<td>Kinematic Viscosity @100°C, mm²/s</td>
<td>ASTM D445</td>
<td>11.7</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>ASTM D2270</td>
<td>170</td>
</tr>
<tr>
<td>Total Base Number, mg KOH/g</td>
<td>ASTM D2896</td>
<td>7.4</td>
</tr>
<tr>
<td>Flash Point (COC), °C</td>
<td>ASTM D92</td>
<td>234</td>
</tr>
<tr>
<td>Pour Point, °C</td>
<td>ASTM D97</td>
<td>-41</td>
</tr>
<tr>
<td>Density @15°C, kg/m³</td>
<td>ASTM D4052</td>
<td>851</td>
</tr>
</tbody>
</table>

G-Base Synthetic Technology performance benefits

G-Base Synthetic Technology base oils provide improved viscosity, friction and volatility performance compared to traditional base oils. They help to ensure better engine cleanliness, prolong engine life, enhance fuel economy, decrease oil consumption and reduce maintenance costs.

![Resistance to oil aging](image)

Resistence to oil aging

Resistance to oil aging

<table>
<thead>
<tr>
<th>Limit</th>
<th>Engine oil with G-Base Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>45% better</td>
<td>45% better</td>
</tr>
</tbody>
</table>

Kinematic Viscosity Increase, %

1 – VW T4 Test

![Thermal and oxidation stability](image)

Thermal and oxidation stability

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Engine oil with G-Base Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>37% better</td>
<td>37% better</td>
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</tbody>
</table>

Piston Cleanliness, merit

2 – OM646LA Test

Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS’s are available upon request through your sales contract office. This product should not be used for purposes other than its intended use.

ISO 9001 | ISO 14001 | ISO/TS 16949 | OHSAS 18001 | CERTIFIED
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