Since 2007, US Global Petroleum (USGP) has been producing lubricants that have continually met or exceed accepted industry standards. The USGP line of products reflects awareness of the changing conditions and needs of the automotive market. USGP lubricants are made from high quality base stocks and additives that are blended under the controlled formulation of USGP chemists and engineers, and are offered at competitive prices. USGP serves a wide variety of customers, and we are an EPA established facility with API certified products.

www.usglobalpetroleum.com
Benefits and Applications

- API Service Classification SN, SM, SL, SJ
- ILSAC GF-5 Service Certification (SAE Grades 5W-20, 5W-30 and 10W-30)
- Lower pour point reduces start-up wear during cold weather
- Full synthetic oil helps to improve fuel economy
- Compatible with conventional oils
- Excellent wear, corrosion, and rust protection
- Superior resistance to sludge and varnish deposit formation
- Designed with premium base stocks for added thermal breakdown resistance

Typical Characteristics - Full Synthetic - V140212

<table>
<thead>
<tr>
<th>SAE GRADE</th>
<th>0W-20</th>
<th>0W-30</th>
<th>0W-40</th>
<th>5W-20</th>
<th>5W-30</th>
<th>5W-40</th>
<th>10W-30</th>
</tr>
</thead>
<tbody>
<tr>
<td>API SERVICE</td>
<td>SN/GF-5</td>
<td>SN/GF-5</td>
<td>SN</td>
<td>SN/GF-5</td>
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<td>SN/GF-5</td>
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<td>API Gravity</td>
<td>ASTM D287</td>
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<tr>
<td>Flash Point, °C/°F</td>
<td>ASTM D92</td>
<td>210/410</td>
<td>198/388</td>
<td>201/394</td>
<td>208/406</td>
<td>204/399</td>
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<tr>
<td>Pour Point, °C/°F</td>
<td>ASTM D97</td>
<td>-57/-59.8</td>
<td>-56/-58</td>
<td>-48/-54.4</td>
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<td>-48/-54.4</td>
<td>-38/-56.4</td>
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<tr>
<td>Viscosity @ 40°C, cSt</td>
<td>ASTM D445</td>
<td>63.5</td>
<td>60.5</td>
<td>86.2</td>
<td>48.7</td>
<td>62.7</td>
<td>84.0</td>
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<tr>
<td>Viscosity Index</td>
<td>ASTM D2270</td>
<td>169</td>
<td>175</td>
<td>185</td>
<td>185</td>
<td>178</td>
<td>145</td>
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<tr>
<td>CCS, mPa-sec, @°C max</td>
<td>ASTM D5293</td>
<td>6200 @ -35</td>
<td>6200 @ -35</td>
<td>6200 @ -35</td>
<td>6200 @ -30</td>
<td>6200 @ -30</td>
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<tr>
<td>Phosphorus, wt% max</td>
<td>ASTM D4951</td>
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<td>Total Base No. TBN</td>
<td>ASTM D2896</td>
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<td>7.9</td>
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</tr>
</tbody>
</table>

Test Method ASTM - Typical test data are average values only. Minor variations, which do not affect performance, may occur.

Handling and Safety Information - Refer to USGLOBAL (MSDS) Material Safety Data Sheets for proper handling and safety information. Use the same care and handling as for any petroleum product. Nothing herein shall be deemed to constitute a warranty, express or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties.
5W-40 Full Synthetic

Measure of reserve additives available to neutralize harmful acids

<table>
<thead>
<tr>
<th>Brand</th>
<th>TBN Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pennzoil</td>
<td>9</td>
</tr>
<tr>
<td>Red Line</td>
<td>8</td>
</tr>
<tr>
<td>Amsoil</td>
<td>8</td>
</tr>
<tr>
<td>Everest</td>
<td>7.9</td>
</tr>
</tbody>
</table>
Viscosity @ 100°C

5W-40 Full Synthetic

Pennzoil 13.2
Red Line 15.6
Amsoil 13.6
Everest 15

API Range is 12.5 to 16.3
5W-40 Full Synthetic

- Pennzoil: 80.7
- Red Line: 97
- Amsoil: 83.3
- Everest: 84
Measure of oil's ability to maintain viscosity over a large temperature range. A higher number will result in a lower variability of viscosity at all operating temperatures.

**API Range is 156 to 159**
Cold Crank Simulator Test

5W-40 Full Synthetic

Apparent viscosity @ -35° C
A lower number will provide a better cold cranking performance

Pennzoil: 6200
Red Line: 5800
Amsoil: 5433
Everest: 5850
5W-40 Full Synthetic

A lower number results in less evaporation of oil

Pennzoil: 6.8  Red Line: 6  Amsoil: 8.7  Everest: 9

API Maximum is 15