Since 2007, US Global Petroleum (USGP) has been producing lubricants that have continually met or exceeded 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 Classification (5W-20, 5W-30 and 10W-30)
- Lower pour point reduces start-up wear during cold weather
- Synthetic blend 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 - Synthetic Blend - V140212

<table>
<thead>
<tr>
<th>SAE GRADE</th>
<th>5W-20</th>
<th>5W-30</th>
<th>5W-40</th>
<th>10W-30</th>
<th>10W-40</th>
<th>20W-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>API GRAVITY</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</td>
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<tr>
<td>API Gravity</td>
<td>ASTM D287</td>
<td>32.5</td>
<td>32.5</td>
<td>35.0</td>
<td>31.6</td>
<td>30.9</td>
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<tr>
<td>Flash Point, °C/F</td>
<td>ASTM D92</td>
<td>202/395.6</td>
<td>210/410</td>
<td>205/401</td>
<td>206/402.8</td>
<td>206/402.8</td>
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<tr>
<td>Pour Point, °C/F</td>
<td>ASTM D97</td>
<td>-48/-54.4</td>
<td>-45/-49</td>
<td>-38/-36.4</td>
<td>-40/-40</td>
<td>-40/-40</td>
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<tr>
<td>Viscosity @ 40°C, cSt</td>
<td>ASTM D445</td>
<td>50.2</td>
<td>64.6</td>
<td>84.0</td>
<td>70.0</td>
<td>110.0</td>
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<tr>
<td>Viscosity @ 100°C, cSt</td>
<td>ASTM D445</td>
<td>8.7</td>
<td>10.8</td>
<td>15.0</td>
<td>10.7</td>
<td>15.9</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>ASTM D2270</td>
<td>151</td>
<td>159</td>
<td>145</td>
<td>138</td>
<td>154</td>
</tr>
<tr>
<td>CCS, mPa-sec °C max</td>
<td>ASTM D5293</td>
<td>6600 &amp; -30</td>
<td>6600 @ -30</td>
<td>6200 @ -30</td>
<td>7000 @ -25</td>
<td>7000 @ -25</td>
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<tr>
<td>Phosphorus, Wt% max</td>
<td>ASTM D4951</td>
<td>0.08</td>
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<tr>
<td>Total Base No. TBN</td>
<td>ASTM D2896</td>
<td>7.9</td>
<td>7.9</td>
<td>7.9</td>
<td>7.9</td>
<td>7.9</td>
</tr>
</tbody>
</table>

Test Method ASTM - Typical test data are average values only. Minor variations, which do not affect performance, may occur.
10W-40 SN

Measure of reserve additives available to neutralize harmful acids

TBN, mg KOH/g, (ASTM D2896)
Viscosity @ 100°C

10W-40 SN

- Pennzoil: 15.4
- Castrol GTX: 14.3
- Peak: 15.5
- Quaker State: 13.9
- Valvoline: 15
- Everest: 15.9

API Range is 12.5 to 16.3
Viscosity @ 40°C

**10W-40 SN**

- Pennzoil: 104.7
- Castrol GTX: 108.3
- Peak: 106
- Quaker State: 96
- Valvoline: 93.04
- Everest: 110
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.

10W-40 SN

<table>
<thead>
<tr>
<th>Brand</th>
<th>Viscosity Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pennzoil</td>
<td>155</td>
</tr>
<tr>
<td>Castrol GTX</td>
<td>133</td>
</tr>
<tr>
<td>Peak</td>
<td>155</td>
</tr>
<tr>
<td>Quaker State</td>
<td>148</td>
</tr>
<tr>
<td>Valvoline</td>
<td>155</td>
</tr>
<tr>
<td>Everest</td>
<td>154</td>
</tr>
</tbody>
</table>
10W-40 SN

Apparent viscosity @ -30° C

A lower number will provide a better cold cranking performance.

API Maximum is 6200
10W-40 SN

A lower number results in less evaporation of oil

Pennzoil: 15
Peak: 14.9
Quaker State: 14.3
Valvoline: 12
Everest: 12.5

API Maximum is 15