Since 2007, US Global Petroleum (USGP) has been producing lubricants that have continually met or exceeded 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.

We compared EVEREST Synthetic Blend Motor Oil to 5 major brands and here are the results

EVEREST Synthetic Blend Motor Oil extends engine life, significantly reduces engine wear, and resists thermal breakdown. EVEREST Synthetic Blend Motor Oil outperforms conventional engine oils in engine cleanliness, fuel economy, and protection between moving parts.

EVEREST Synthetic Blend Motor Oils are fully licensed to meet or exceed the latest American Petroleum Institute SN Service Classification for use in passenger car, van, sport utility vehicle, light duty truck and other mobile and stationary engines. EVEREST Synthetic Blend 5W-20, 5W-30 and 10W-30 are also Resource Conserving and exceed car manufacturers’ ILSAC GF-5 Service Rating.

EVEREST Synthetic Blend Motor Oils are backwards compatible with all earlier API categories and have been field tested to be comparable to American, European and Japanese manufacturers’ requirements of ACEA A1/B1 & A5/B5, Ford WSS-M2C930A and WSS-M2C945A (5W-20), and WSS-M2C929A and WSS-M2C946A (5W-30); Chrysler MS 6395, and GM 6094M (now obsolete).

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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 Service</td>
<td>SN/GF-5</td>
<td>SN/GF-5</td>
<td>SN</td>
<td>SN/GF-5</td>
<td>SN</td>
<td>SN</td>
</tr>
<tr>
<td>API Gravity</td>
<td>ASTM D2887</td>
<td>32.5</td>
<td>32.5</td>
<td>35.0</td>
<td>31.6</td>
<td>30.9</td>
</tr>
<tr>
<td>Flash Point, COC °C/°F</td>
<td>ASTM D5</td>
<td>202/395.6</td>
<td>210/410</td>
<td>205/401</td>
<td>206/402.8</td>
<td>206/402.8</td>
</tr>
<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>
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<tr>
<td>Viscosity Index</td>
<td>ASTM D12270</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 @ -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>
<td>0.08</td>
<td>0.08</td>
<td>0.08</td>
<td>0.08</td>
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<tr>
<td>Total Base No. TBN</td>
<td></td>
<td>7.0</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.

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-20 SN/GF-5

Measure of reserve additives available to neutralize harmful acids

TBN, mg KOH/g, (ASTM D2896)
5W-20 SN/GF-5

Viscosity @ 100°C

Pennzoil: 8.7
Castrol GTX: 8.99
Peak: 8.11
Quaker State: 8.53
Valvoline: 8.53
Everest: 8.67

API Range is 5.6 to 9.3
5W-20 SN/GF-5

Viscosity @ 40°C

- Pennzoil: 49.43
- Castrol GTX: 53.53
- Peak: 46.34
- Quaker State: 47.95
- Valvoline: 49.42
- Everest: 50.21
5W-20 SN/GF-5

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.

Pennzoil: 155
Castrol GTX: 148
Peak: 149
Quaker State: 145
Valvoline: 150
Everest: 151
5W-20 SN/GF-5

Apparent viscosity @ -30° C
A lower number will provide a better cold cranking performance

API Maximum is 6600
5W-20 SN/GF-5

A lower number results in less evaporation of oil

API Maximum is 15
(TBN) Total Base Number

5W-30 SN/GF-5

Measure of reserve additives available to neutralize harmful acids

TBN, mg KOH/g, (ASTM D2896)
5W-30 SN/GF-5

Viscosity @ 100°C

API Range is 9.3 to 12.5
Viscosity @ 40°C

5W-30 SN/GF-5

- Pennzoil: 63.4
- Castrol GTX: 64.31
- Peak: 63.05
- Quaker State: 63.8
- Valvoline: 57.89
- Everest: 64.55
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.

5W-30 SN/GF-5

**5W-30 SN/GF-5**

Apparent viscosity @ -30° C

A lower number will provide a better cold cranking performance

- Pennzoil: 6100
- Castrol GTX: 6200
- Peak: 5618
- Quaker State: 6100
- Valvoline: 4800
- Everest: 5800

API Maximum is 6600
5W-30 SN/GF-5

A lower number results in less evaporation of oil

API Maximum is 15
10W-30 SN/GF-5

Measure of reserve additives available to neutralize harmful acids

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

10W-30 SN/GF-5

Pennzoil: 10.5
Castrol GTX: 11.31
Peak: 10.4
Quaker State: 10.5
Valvoline: 11
Everest: 10.72

API Range is 9.3 to 12.5
Viscosity @ 40°C

10W-30 SN/GF-5

- Pennzoil: 69.5
- Castrol GTX: 75.1
- Peak: 66.88
- Quaker State: 70.3
- Valvoline: 71.45
- Everest: 70.05
10W-30 SN/GF-5

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-30 SN/GF-5

Apparent viscosity @ -30° C
A lower number will provide a better cold cranking performance

API Maximum is 7000
A lower number results in less evaporation of oil

10W-30 SN/GF-5

Pennzoil: 15
Peak: 12
Quaker State: 14
Valvoline: 12
Everest: 12.5

API Maximum is 15
10W-40 SN

Measure of reserve additives available to neutralize harmful acids

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

10W-40 SN

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

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

<table>
<thead>
<tr>
<th>Oil</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pennzoil</td>
<td>15</td>
</tr>
<tr>
<td>Peak</td>
<td>14.9</td>
</tr>
<tr>
<td>Quaker State</td>
<td>14.3</td>
</tr>
<tr>
<td>Valvoline</td>
<td>12</td>
</tr>
<tr>
<td>Everest</td>
<td>12.5</td>
</tr>
</tbody>
</table>

API Maximum is 15
**20W-50 SN**

Measure of reserve additives available to neutralize harmful acids

![Bar Chart]

- **Pennzoil**: 9.46
- **Castrol GTX**: 7.73
- **Peak**: 7.09
- **Quaker State**: 7.87
- **Valvoline**: 6.86
- **Everest**: 7.9

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

20W-50 SN

API Range is 16.3 to 21.9
Viscosity @ 40°C

20W-50 SN

<table>
<thead>
<tr>
<th>Brand</th>
<th>Viscosity @ 40°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pennzoil</td>
<td>161.4</td>
</tr>
<tr>
<td>Castrol GTX</td>
<td>159.1</td>
</tr>
<tr>
<td>Peak</td>
<td>161</td>
</tr>
<tr>
<td>Quaker State</td>
<td>161.4</td>
</tr>
<tr>
<td>Valvoline</td>
<td>155.3</td>
</tr>
<tr>
<td>Everest</td>
<td>156.9</td>
</tr>
</tbody>
</table>
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.
20W-50 SN

A lower number results in less evaporation of oil

API Maximum is 15