D-A evolve™ is an SAE 15W-40 oil designed specifically to support the stringent performance requirements of API Service Category CJ-4 used in 2007 and later model diesel engines running primarily on ultra-low sulfur fuel and equipped with after treatment devices.  

**Product Features and Benefits**

- Reduced oil consumption and operating costs
- Improved control of engine wear through rapid oil flow on cold starts
- Proper metal-to-metal separation during high temperature / high load operation
- Optimum dosage of active diesel detergents keeps internal engine parts clean and operating efficiently under Exhaust Gas Recirculation conditions
- Supports the performance requirements of mixed heavy-duty diesel fleets in addition to the oil specifications for 2007 and later model diesel engines running on ultra-low sulphur diesel fuel

**Gasoline Powered Engines - Product Features and Benefits**

D-A evolve™ automotive engine oil offers excellent protection against engine deposits and high temperature thermal breakdown. ChemGuard™ additive technology enhances oxidation stability, dispersancy, emission system protection and anti-wear performance over other mineral base motor oils.  

**Product Features and Benefits**

- High temperature protection improves thermal stability under severe operating conditions
- High detergency keeps engine free of sludge and varnish deposits
- Anti-wear additives dramatically reduce engine wear especially during cold start-ups
- Formulated for improved fuel economy in new and old vehicles
- Additive system designed to reduce catalyst poisoning and prolong emission system life

**Diesel Powered Engines - Product Features and Benefits**

D-A evolve™ 15W-40 is an SAE 15W-40 oil designed specifically to support the stringent performance requirements of API Service Category CJ-4 used in 2007 and later model diesel engines running primarily on ultra-low sulfur fuel and equipped with after treatment devices. D-A evolve™ 15W-40 is technologically advanced with ChemGuard™ additives for heavy-duty diesel engine oil, designed to provide extra protection against deposits and wear for engines operating in heavy duty service.  

**Product Features and Benefits**

- Shear stable polymers result in resistance to in-service viscosity loss, providing excellent viscosity protection and reduced oil consumption under tough service conditions
- **evolve™** 15W-40 composition has been designed to provide extended life for exhaust after-treatment devices

**PRODUCT AT A GLANCE**

- Re-Refined Base Stock
- Vigorous ChemGuard™ additive technology

**API Licensed:**

- API SN
- API CJ-4 (SAE 15W-40)

Supports the performance requirements of:

- ILSAC GF-5
Typical Applications

Gasoline Powered Engines - Applications:
D-A evolve™ supports the performance requirements of virtually all naturally aspirated, turbo-charged and super-charged gasoline fueled passenger cars and light trucks, including European and Japanese vehicles where API SN and/or ILSAC GF-5 oil is called for.

Diesel Powered Engines - Applications:
D-A evolve™ 8 TBN, SAE 15W-40 supports the performance requirements for diesel engines requiring an engine oil meeting API Service Categories API CJ-4, CI-4+, CI-4, CF, SM, ACEA E7, Cummins 20081, Mack EO-O Premium Plus 07, Caterpillar ECF-3, DDC PGOS93K218, Volvo VDS-4, Navistar, DHD-1, and JASO DH-2. Innovative concepts have been incorporated into D-A evolve™ 15W-40 to provide efficient equipment operation and improved component durability.

Typical Properties

<table>
<thead>
<tr>
<th>SAE Viscosity Grade</th>
<th>5W-20</th>
<th>5W-30</th>
<th>10W-30</th>
<th>15W-40</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>@ 100 °C, cSt</td>
<td>ASTM D445</td>
<td>8.3</td>
<td>10.2</td>
<td>10.7</td>
<td>15.1</td>
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<tr>
<td>@ 40°C, cSt</td>
<td>ASTM D445</td>
<td>48.0</td>
<td>63.0</td>
<td>69.0</td>
<td>111.0</td>
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<tr>
<td>Viscosity Index</td>
<td>ASTM D2270</td>
<td>147</td>
<td>149</td>
<td>143</td>
<td>141</td>
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<tr>
<td>Gravity, API</td>
<td>ASTM D287</td>
<td>0.869</td>
<td>0.869</td>
<td>0.882</td>
<td>0.893</td>
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<tr>
<td>Flash Point, COC, °F</td>
<td>ASTM D92</td>
<td>410</td>
<td>415</td>
<td>420</td>
<td>450</td>
</tr>
<tr>
<td>Flash Point, COC, °C</td>
<td>ASTM D92</td>
<td>210</td>
<td>213</td>
<td>216</td>
<td>232</td>
</tr>
<tr>
<td>Cold Cranking Viscosity — (SAE Grade Maximum: 5W- = 6600 cP, 10W- and 15W- = 7,000 cP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>@ -20°C, cP</td>
<td>ASTM D5293</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>4200</td>
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<tr>
<td>@ -25°C, cP</td>
<td>ASTM D5293</td>
<td>n/a</td>
<td>n/a</td>
<td>4400</td>
<td>n/a</td>
</tr>
<tr>
<td>@ -30°C, cP</td>
<td>ASTM D5293</td>
<td>5600</td>
<td>6000</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>Sulfated Ash, Wt. %</td>
<td>ASTM D-877</td>
<td>0.85</td>
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<td>0.85</td>
<td>0.98</td>
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<tr>
<td>Lbs/Gal</td>
<td></td>
<td>7.2</td>
<td>7.2</td>
<td>7.3</td>
<td>7.4</td>
</tr>
</tbody>
</table>

D-A Part Numbers

- Drum - 55 Gal: 61402, 61412, 61422, 52282, 52232
- 12-1 Qt Case, net 3 Gal: 61406, 61416, 61426, 52286, 52236

To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823) or Fax orders to 765-482-3065

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