BIODEGRADABLE MULTIPURPOSE EXTREME PRESSURE GREASE

Biodegradable Multipurpose Extreme Pressure Grease is a true high performance, Extreme Pressure biodegradable grease formulated using readily renewable bio-based fluids. As an organo-clay grease, Biodegradable Multipurpose Extreme Pressure Grease exhibits all of the beneficial properties of that thickening system, including excellent water washout resistance, mechanical and thermal stability. Biodegradable Multipurpose Extreme Pressure Grease provides excellent Extreme Pressure and load carrying capabilities for superior wear protection and extended component life while providing rust and corrosion protection with the added benefit of biodegradability.

Applications

- Typical industrial applications including general machinery bearings
- Marine, mining, forestry and construction equipment where there is a potential risk to harming the environment
- Designed to lubricate the coupler ram, helmet and drive screw of the tug-barge coupler

Features and Benefits

- Organo-clay thickener
  - Mechanically stable and water resistant.
- Biodegradable
  - Biodegrades into harmless substances.
- Extreme Pressure and anti-wear properties
  - Maximizes component useful life helping to reduce replacement part costs and lost production time.
- Non-toxic
  - Environmentally safe, reducing the effects on the eco-balance. Superior worker safety.

General Description


Product No. 301544
### BIODEGRADABLE MULTIPURPOSE EXTREME PRESSURE GREASE

#### TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product No.</strong></td>
<td>301544</td>
</tr>
<tr>
<td><strong>Old Product No.</strong></td>
<td>56851</td>
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<tr>
<td>NLGI Grade</td>
<td>2</td>
</tr>
<tr>
<td>Penetration, worked (60 strokes), ASTM D217 mm/10</td>
<td>280</td>
</tr>
<tr>
<td>Thickener Type</td>
<td>Organo-Clay</td>
</tr>
<tr>
<td>Base Fluid Type</td>
<td>Natural Oil</td>
</tr>
<tr>
<td>Viscosity (Base Fluid), ASTM D445</td>
<td></td>
</tr>
<tr>
<td>@ 40ºC, cSt</td>
<td>101</td>
</tr>
<tr>
<td>@ 100ºC, cSt</td>
<td>20.0</td>
</tr>
<tr>
<td>Viscosity Index (Base Fluid), ASTM D2270</td>
<td>222</td>
</tr>
<tr>
<td>Dropping Point, ASTM D2265</td>
<td>&gt;260 (&gt; 500)</td>
</tr>
<tr>
<td>Water Washout, ASTM D1264 @ 79ºC (175ºF), loss, weight %</td>
<td>4.16</td>
</tr>
<tr>
<td>4-Ball EP Test, ASTM D2596</td>
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</tr>
<tr>
<td>Weld Load, kg</td>
<td>315</td>
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<tr>
<td>Load Wear Index, kg</td>
<td>69</td>
</tr>
<tr>
<td>4-Ball Wear Test, ASTM D2266 @ 1200 rpm, 40 kg, 1 hr, 75ºC</td>
<td>0.50</td>
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<tr>
<td>Scar Diameter, mm</td>
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</tr>
<tr>
<td>Pour Point (Base Fluid), ASTM D97</td>
<td>-39 (-38)</td>
</tr>
<tr>
<td>Flash Point (Base Fluid), ASTM D93</td>
<td>206 (583)</td>
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<tr>
<td>Useful Temperature Range</td>
<td>-10 to 70 (14 to 158)</td>
</tr>
<tr>
<td>Biodegradability, ASTM D5864, %</td>
<td>66.3</td>
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<tr>
<td>Color</td>
<td>Tan</td>
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</tbody>
</table>

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