SHELL NATURELLE®
FLUIDS HF-E
Biodegradable synthetic anti-wear hydraulic fluids

Product Description
Shell Naturelle® Fluids HF-E are advanced biodegradable hydraulic fluids for use in power transmission and hydraulic systems working in environmentally sensitive areas. Synthetic esters and a specially tailored additive system provide Shell Naturelle® Fluids HF-E with an excellent balance of biodegradability and lubrication performance.

Applications
- higher operating temperatures and applications where a premium biodegradable product is required
- anti-wear hydraulic systems of construction and earth moving equipment
- machine tool hydraulic systems
- moderately rated gearboxes where an anti-wear hydraulic oil is specified
- operating temperatures up to 90°C (194°F)

Features/Benefits
- excellent viscosity-temperature characteristics
- outstanding corrosion protection and oxidation resistance
- good aging stability
- optimal anti-wear protection

Typical Properties of Shell Naturelle® Fluids HF-E Hydraulic Fluids

<table>
<thead>
<tr>
<th>Test Method</th>
<th>ISO Viscosity Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>65176</td>
</tr>
<tr>
<td>Density @ 15°C, kg/m³</td>
<td>32</td>
</tr>
<tr>
<td>Viscosity @ 40°C, cSt</td>
<td>D 1298</td>
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<tr>
<td>Flash Point, °C</td>
<td>D 445</td>
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<tr>
<td>Pour Point, °C</td>
<td>D 92</td>
</tr>
<tr>
<td>Biodegradability</td>
<td>OECD 301B¹</td>
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</tbody>
</table>

¹The OECD 301B test measures ready biodegradability and the pass level is set at 60 per cent for complete mineralization.

Handling & Safety Information
For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at http://www.shell-lubricants.com/msds/. If you are a Shell Distributor, please call 1+800-468-6457 for all of your service needs. All other customers, please call 1+800-840-5737 for all of your service needs. Information is also available on the World Wide Web: http://www.shell-lubricants.com/.