



# SHELL NATURELLE<sup>®</sup> HF-M

## Biodegradable anti-wear hydraulic fluid

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### Product Description

Shell Naturelle<sup>®</sup> HF-M is a biodegradable anti-wear fluid developed for use in hydraulic power transmission systems working either in or out of doors. It is a mixture of synthetic ester and vegetable oil blended with wear, rust and oxidation inhibitors.

### Applications

- power transmission and hydraulic systems where the use of biodegradable fluids are preferred for environmental reasons
- operating temperature range  $-25^{\circ}\text{C}$  to  $70^{\circ}\text{C}$

### Features/Benefits

- excellent low temperature performance
- high degree of biodegradability
- excellent viscosity-temperature characteristics
- outstanding protection against corrosion
- good aging stability
- optimal anti-wear protection

### Typical Properties of Shell Naturelle<sup>®</sup> HF-M Hydraulic Fluid

|   | Test Method            | ISO Viscosity Grade |
|---|------------------------|---------------------|
|   |                        | 46                  |
| Product Code  |                        | 65175               |
| Density @ $15^{\circ}\text{C}$ , $\text{kg}/\text{m}^3$ |                        | 0.920               |
| Viscosity @ $40^{\circ}\text{C}$ , cSt                  | D 445                  | 42                  |
| Flash Point, $^{\circ}\text{C}$                         | D 92                   | 230                 |
| Pour Point, $^{\circ}\text{C}$                          | D 97                   | -42                 |
| Biodegradability  | OECD 301B <sup>1</sup> | >60                 |

<sup>1</sup>The 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/>