

BIOHYDRAN AW



LUBRICATION



Biodegradable, high-viscosity index anti-wear hydraulic oil

APPLICATIONS

Environmentally Friendly Hydraulic fluids.

- **BIOHYDRAN AW** is a high performance, biodegradable, anti-wear hydraulic fluid series. It has been designed for hydraulic applications operating in environmentally sensitive areas. These fluids protect the environment from damage when accidental discharges occur.
- **BIOHYDRAN AW** hydraulic fluids provide excellent anti-wear protection for high pressure, high speed hydraulic pumps. They are formulated from specially selected vegetable base stocks and non-toxic additives. They exhibit 95% biodegradability after 21 days in the industry recognized CEC-L-33-A-94 biodegradability test. **BIOHYDRAN AW** fluids also satisfy the German Hygiene Institute's non-contamination class (WGK 0) for biodegradable lubricants.

SPECIFICATIONS

International and OEM specifications

- DENNISON HF-0
- CEC-L-33-A-94 BIODEGRADABILITY TEST
- GERMAN HYGIENE INSTITUTE - WGK 0
- VICKERS 35VQ25 and V104C

ADVANTAGES

Long equipment life and high operating reliability.

- Excellent anti-wear properties.
- Resistance to hydrolysis and oxidation.
- Inert towards metals (non-staining and no corrosive wear).
- Good compatibility with elastomers and seals.
- Excellent water/oil demulsification properties.
- Excellent anti-foaming, anti-corrosion, and anti-oxidation properties.

TYPICAL PROPERTIES—BIOHYDRAN AW

| ISO grade | 32 | 46 | 68 |
|--|-----------|-----------|-----------|
| Viscosity at 40°C, cSt, ASTM D 445 | 32 | 46 | 64 |
| Viscosity at 100°C, cSt, ASTM D 445 | 8 | 10.8 | 14.5 |
| Viscosity Index, ASTM D 2270 | 219 | 237 | 240 |
| Density @ 60°F, lbs. /gal. ASTM D 1298 | 7.60 | 7.69 | 7.67 |
| Specific Gravity @ 60/60°F ASTM D 1298 | 0.913 | 0.924 | 0.921 |
| Pour Point, °C ASTM D 97 | -10 (-23) | -30 (-34) | -25 (-32) |
| Flash Point, COC, °F ASTM D 92 | 545 (285) | 565 (296) | 550 (288) |
| 4 Ball Wear Test, scar diameter mm ASTM D 2266 | 0.34 | 0.34 | 0.34 |
| Biodegradability, % 21 days (CEC-L-33A-94) | 95 | 95 | 95 |

TOTAL Lubricants USA Southwest

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Biohydran AW Series
Sheet updated: 9/2009

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