

PAG HYDRAULIC FLUIDS



LUBRICATION



Synthetic bio-friendly anti-wear hydraulic oil

APPLICATIONS

Hydraulic systems

- **PAG HYDRAULIC FLUIDS** are high-performance biodegradable, non-toxic anti-wear hydraulic fluid series. They were developed for hydraulic systems operating in industrial, marine or mobile service.
- **PAG HYDRAULIC FLUIDS** are water soluble unlike most other hydraulic fluids. They also do not break down to form sludge or varnish, nor do they hydrolyze in the presence of water. Spills into waterways will not leave an oil-like sheen. However their low toxicity and biodegradability cause them to have a low environmental impact for small spills.
- They exhibit 80% biodegradability in a common industrial biodegradability test.

SPECIFICATIONS

International and OEM specifications

- AFNOR NF E 48-603 HV
- CINCINNATI MACHINE P68, P69, P70
- DIN 51524 PART 3 CATEGORY HVLP
- ISO 6743/4 CATEGORY HV
- VICKERS I-286-S, M-2950-S

ADVANTAGES

Biodegradable and water soluble
Long equipment life and high operating reliability

- Very high viscosity index with excellent shear stability with superior thermal stability avoiding the formation of sludge at higher temperatures.
- Highly biodegradable
- Water soluble with little or no sheen and low turbidity
- Very low pour point and low temperature fluidity for easy start-ups.

TYPICAL PROPERTIES—PAG HYDRAULIC FLUIDS

| ISO grade | 32 | 46 |
|--|-----------|-----------|
| Viscosity at 40°C, cSt (ASTM D 445) | 34 | 46 |
| Viscosity at 100°C, cSt (ASTM D 445) | 7.6 | 9.1 |
| Viscosity index (ASTM D 2270) | 200 | 205 |
| Density @ 60°F, lbs. /gal. (ASTM D 1298) | 8.83 | 8.83 |
| Specific gravity @ 60/60°F (ASTM D 1298) | 1.06 | 1.059 |
| Pour point, °C (ASTM D 97) | -45 (-43) | -40 (-40) |
| Flash point, COC, °F (ASTM D 92) | 465 (241) | 482 (250) |
| Oxidation test, hours, (ASTM D 943) | 1800 | 1848 |
| FZG visual gear test, stages passed | 12 | 12 |

TOTAL Lubricants USA Southwest

TOTAL Lubricants USA, Inc.

400 Chisholm Place, Suite 418
Plano, Texas 75075
800-442-5823 or 469-241-0950
www.finalube.com

PAG Hydraulic Series
Sheet updated: 9/2009

5 North Stiles Street
Linden, New Jersey 07036
800-526-4127 or 908-862-9300
www.total-us.com

TOTAL Lubricants USA has a policy of continuous improvement and reserves the right to change specifications as our technology progresses. We are not responsible for the misuse and/or misapplication of our products. MSDS are found on our web sites.