



Product Data Sheet

ECOSE® AW-HD HYDRAULIC OIL

Anti-Wear Protection for R&O Gear & Circulating Systems

Zinc-containing heavy duty hydraulic/circulating oil formulated with an advanced additive system designed to provide protection and high performance in hydraulic systems often found in mobile and stationary equipment operating under severe conditions. These oils are suitable for use in a wide variety of both high and low pressure industrial, mobile, and marine hydraulic systems utilizing vane, piston, or gear pumps.

Features and Benefits

- Outstanding rust and corrosion protection
- Superior oxidation resistance for extended service life
- Very good anti-foam performance with low air entrainment
- Exceptional anti-wear protection to maximize hydraulic system component life

Applications

- Applications requiring AGMA R&O gear oil
- Hydraulic equipment reduction gears where EP is not required
- Hydraulic presses, winches, hoists, mobile construction equipment, machine tools, air compressors
- Circulating systems for gears and bearings

Typical Properties

| ISO Viscosity Grade | Test Method | 100 | 150 | 220 | 320 |
|---------------------------|----------------|----------|-----------|-----------|-----------|
| Product Code | | 534400 | 534402 | 534404 | 534406 |
| AGMA Grade | | 3 | 4 | 5 | 6 |
| Viscosity, cSt @ 40°C | ASTM D-445 | 98.5 | 149.5 | 210 | 305 |
| Viscosity, cSt @ 100°C | ASTM D-445 | 11.5 | 14.3 | 18.0 | 22.6 |
| Viscosity Index | ASTM D-2270 | 105 | 93 | 93 | 90 |
| Pour Point, °F (°C) | ASTM D-5949 | +5 (-15) | +10 (-12) | +10 (-12) | +10 (-12) |
| Flash Point, °F (°C) | ASTM D-92 | 480 | 500 | 520 | 530 |
| Rust Test | ASTM D-665 A&B | Pass | Pass | Pass | Pass |
| Oxidation Stability, hrs. | ASTM D-943 | >2000 | >1500 | >1000 | >1000 |
| Foam Stability | ASTM D-892 | Pass | Pass | Pass | Pass |
| API Gravity | ASTM D-1298A | 30.5 | 29.7 | 28.3 | 27.6 |

These properties are typical of current production, minor variations are to be expected in normal manufacturing.

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877-771-5823



East Greenbush, NY



www.nu-tierbrands.com

