



STERN Premium Anti-Wear (AW) Hydraulic Oil P-Series

LUBRICANTS

The five grades are premium-quality anti-wear hydraulic oils with excellent stability, designed to meet the most stringent requirements of most all the major manufacturers and users of hydraulic equipment. These oils are characterized by providing rust protection, low deposit formation, rapid release of entrained air, oxidation resistance, low pour points, and good antifoam properties. They contain an effective anti-wear agent that helps reduce wear in high speed, high-pressure vane and gear pumps.

APPLICATIONS

Recommended for vane, gear, and piston-type pumps where operating pressures may exceed 3000 psi. These anti-wear hydraulic oils are very effective in reducing vane and gear pump wear and greatly extend the life of systems operating at high loads, speeds, and temperatures. In a clean dry system, typical value** for ASTM D-877, "Dielectric Breakdown Voltage of Insulating Liquids" will exceed 30 Kilovolts. These hydraulic oils meet performance requirements of DIN 51524 HLP, Denison HF-0, Eaton-Vickers I-286-S, M-2950-S and Cincinnati Lamb Landis P-68, P69, and P-70.

**Application ISO Grades 10, 15, 22, 32, 46, & 68 meet dielectric strength test results described in ASTM D-877 @ 30KV+ providing customer storage and containment are free of moisture under all conditions.

TYPICAL PROPERTIES

| Premium Anti-Wear (AW) Hydraulic Oil | ISO 32 | ISO 46 | ISO 68 | ISO 100 |
|---|---------------|---------------|---------------|----------------|
| <i>Viscosity (cSt) at 40°C</i> | 30.2 | 44.2 | 66.2 | 93.8 |
| <i>Viscosity (cSt) at 100°C</i> | 5.2 | 6.6 | 8.5 | 10.6 |
| <i>Viscosity Index</i> | 100 | 98 | 95 | 95 |
| <i>Flash Point, (COC) Deg F</i> | 405 | 425 | 445 | 460 |
| <i>Pour Point, Deg F</i> | -20 | -15 | -0 | - |
| <i>Neut. No., ASTM D 974</i> | 0.55 | 0.55 | 0.55 | 0.55 |
| <i>Gravity, API @ 60 F</i> | 30.0 | 29.0 | 28.7 | 28.3 |
| <i>Oxidation Life, ASTM D 943, Hrs</i> | +6000 | +6000 | +6000 | +6000 |
| <i>Rust Test, ASTM D-665</i> | no rust | no rust | no rust | no rust |
| <i>Demulsibility, ASTM D-1401</i> | Pass | Pass | Pass | Pass |
| <i>**Dielectric Strength, ASTM D 877</i> | 30KV+ | 30KV+ | 30KV+ | - |