Synthetic AW Hydraulic Oil

Exceptional Oil Life
Up to 8,000 Hours

SWEPCO 704 Synthetic Anti-Wear Hydraulic Oil delivers industry leading anti-wear performance in the most demanding stationary or mobile hydraulic applications. SWEPCO’s Syntheon™ synthetic base stock blends and proprietary LUBIUM® II oxidation and corrosion resistant chemistry lengthen lubricant life, insure system cleanliness, deliver unsurpassed protection from wear, improve hydraulic efficiencies and reduce energy consumption. When you want the best, choose SWEPCO 704 Synthetic Anti-Wear Hydraulic Oil.

KEY BENEFITS

- Syntheon™ synthetic base stock blends insure long life & less waste oil
- Truly superior anti-wear performance
- Reliable service life up to 8,000 hours or more
- Advanced LUBIUM® II anti-oxidant chemistry prevents carbon, varnish & other performance-robbing deposits
- Unexcelled protection from rust & corrosion
- Excellent anti-foam performance
- Rapid, complete water separation
- Energy efficient; improves hydraulic efficiency
- Remains fluid down to -40°F (-40°C) for low temperature applications
- Dependable, long service life in the most demanding stationary or mobile hydraulic applications
- UV sensitive for fast leak detection

Get the most for your lubrication dollar...
**Feature** | **Benefit**
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**Syntheon™ Base Stock Blends** | • Gives you a more uniform viscosity over a wide temperature range  
• Improves high temperature oxidation and thermal stability  
• Better low temperature flow characteristics help reduce start-up wear  
• Extends service life

**LUBIUM II Anti-Oxidant** | • Improves resistance to high temperature degradation  
• Helps prevent vanish and carbon deposits that result from oxidation

**Anti-Wear Additive** | • Protects surfaces from scuffing wear

**Rust & Corrosion Inhibitor** | • Builds a chemical bond with the surface to keep moisture and acids from penetrating and attacking the surfaces. Rust inhibitor protects metal surfaces and seals from moisture. Particularly effective during periods of shutdown, where cooling may cause condensation

**Anti-Foam Additive** | • Lowers oil operating temperatures up to 25 degrees F. or more by dispersing foam and releasing trapped heat

**Pour Point Depressant Additive** | • Gives oil better low temperature flow characteristics  
• Helps to reduce low temperature start-up wear

**Long Service Life** | • Up to 8,000 hours or more; reduces consumption; reduces waste oil disposal costs

**LabTec™ Fluid Analysis Program** | • Can maximize equipment life, life of the lubricant and pinpoint impending problems  
• Reduces waste

**Bottom Line** | Increased profits through...  
- Extended equipment life  
- Extended oil life  
- Reduced electrical utility costs  
- Reduced waste oil disposal  
- Reduced costly scheduled/unscheduled downtime  
- Reduced labor costs

**Typical Physical Properties**

| Feature | Benefit |
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ISO Viscosity Grade, ASTM 2422 | 22  
SAE Grade | 5  
Specific Gravity @ 60 °F, ASTM D1298 | 0.85  
Viscosity, ASTM D447 | cS @ 40 °C | 24.5  
cS @ 100 °C | 4.8  
Viscosity Index, ASTM D2270 | 117  
Pour Point “F, ASTM D97, Max (°C) | -32 (-36)  
Flash Point °F, ASTM D92, Min (°C) | 400 (204)  
Fire Point °F, ASTM D92, Min (°C) | 470 (243)  
Dielectric Strength, ASTM D877, volts | >36,000  
Color | red  

**Typical Performance Properties**

| Feature | Benefit |
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Copper Strip Corrosion, ASTM D130, Color | 1a  
Distilled Water | pass  
Acid Number, ASTM D974 | 0.03  
Demulsibility, ASTM D1401 | Oil/water/cuff (minutes) | 40/40/0 (10)  
Oxidation, RPVOT minutes @150°C, ASTM D2272 | 1578  
Oxidation, hrs to 2.0 TAN, ASTM D943 | 8,000+  
Copper loss, mg/cm² | 0.10  
Acidity of water, mgKOH/25g | basic  
Cincinnati Machine Thermal Stability Test Part A | 1.8  
Copper rod appearance | 2  
Copper loss, mg | 3.8  
Iron rod appearance | 1  
Insoluble content | 0.0  
Sludge, mg/100ml | 8.9

**Meets or Exceeds the Performance Requirements of These Specifications:**

- Denison HF-0  
- Cincinnati Machine P-68, P-69, P-70  
- U.S. Steel 127, 136  
- DIN 51524 Part II  
- NSF and Health Canada requirements for use in closed systems in federally inspected food & beverage plants

**Compatibility**

Paints-Epoxy, Oil Resistant Alkyd, Acrylic Enamel  
Seals & Plastics-Acetal (Delrin), ABS, Phenolic, Polyamide-imide, Polyamide (nylon), Polyester, Polyetherimide (Nylon), Polyimide, Polyphenylene oxide, Polystyrene, Polysulfone, PTFE (Teflon), Terephthalate Elastomers; Fluoroelastomer (Viton), Nitrile (Buna N), Polyacrylate, TFE/P, Poly Urethane.  
NOT recommended for polycarbonate plastic that is not metal covered, PVC plastic and butyl, ethylene-propylene or SBR rubber.

**Changeovers:** Although compatible with mineral oils, PAOs and some other synthetic oils, a thorough drain and cleaning is recommended before switching over to SWECO 704. This will help reduce initial contamination and insure optimum performance.