

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**TM 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 seperation
- 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 . . .



MANUFACTURING



AGRICULTURE



CONSTRUCTION



MOTION CONTROL

Protect your hydraulic systems and equipment with the superior lubrication of SWEPCO 704 Synthetic Anti-Wear Hydraulic Oil.

Feature	Benefit			
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® // Anti-Oxidant	Improves resistance to high temperature degradationHelps prevent varnish 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			
Lab Tec SM 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 waste oil disposal • Reduced costly scheduled/unscheduled downtime • Reduced labor costs			

Typical Physical Properties

ISO Viscosity Grade, ASTM 2422	22	32	46	68	100
SAE Grade	5	10	15	20	30
Density, @ 60°F, Ib/gal, ASTM D1298	7.13	7.22	7.27	7.52	7.52
Specific Gravity @ 60 °F, ASTM 1298					
Viscosity, ASTM D447					
cSt @ 40 °C	24.5		48	70	102
cSt @ 100 °C	4.8	5.5	7.1	9.1	11.7
Viscosity Index, ASTM D2270	117	109	107	105	108
Pour Point °F, ASTM D97, Max (°C)	32 (-36)	40 (-40)	30 (-34)	26 (-32)	18 (-28)
Flash Point °F, ASTM D92, Min (°C)					
Fire Point °F, ASTM D92, Min (°C)	470 (243)	475 (246)	505 (263)	510 (265)	. 515 (268)
Dielectric Strength, ASTM D877, volts	>36,000	>36,000	>36,000	> 36,000	>36,000
Color		red	red	red	red

Typical Performance Properties

Copper Strip Corrosion, ASTM D130, Color	a
Distilled Waterpass	s
Synthetic Sea Waterpass	s
Acid Number, ASTM D974 0.03	3
Foam, ASTM D892, Seq I/II/III 0-0/0-0/0-0	Ō
Demulsibility, ASTM D1401	_
oil/water/cuff (minutes) 40/40/0 (10))
Oxidation, RPVOT minutes @150°C, ASTM D2272 1578	Ŕ
Oxidation, hrs to 2.0 TAN, ASTM D943	+
Four Ball Wear, ASTM D4172	
1800 rpm, 1hr, 400N, scar diameter, mm 0.58	8
FZG Gear, DIN 51354 part 2, Damage Load Stage >14	
Hydrolytic Stability, ASTM D2619	
Copper loss, mg/cm ² 0.10	0
Acidity of water, mgKOH/25g basic	c
Cincinnati Machine Thermal Stability Test Part A	
% viscsoity change 1.8	8
Copper rod appearance	
Copper loss, mg	
Iron rod appearance	
Iron loss, mg	
Insoluble content	
Sludge, mg/100ml 8.9	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
 AFNOR NFE 48-603
 GM LS-2
 Sauer-Sunstrand
 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 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 SWEPCO 704. This will help reduce initial contamination and insure optimum performance.



A Product of SPX Technology™.

the cutting edge performance SWEPCO Customers have come to expect.

















Southwestern Petroleum Lubricants, LLC