



## Megaflow™ AW Hydraulic Oil

Megaflow AW Hydraulic Oil is a high-quality antiwear hydraulic oil developed for use in a wide variety of industrial and mobile hydraulic system applications. It meets the performance requirements of all major hydraulic pump manufacturers, and is recommended for use in all types of high-pressure, high-speed hydraulic pumps.

Megaflow AW Hydraulic Oil is formulated to provide excellent wear protection for hydraulic pumps and motors, and to protect hydraulic system components against rust and corrosion. It has excellent oxidation resistance and thermal stability at high temperatures to minimize deposit formation and provide long service life. It has excellent water-separating properties to minimize the formation of emulsions, and is resistant to excessive foam buildup that can cause poor or sluggish hydraulic system response.

### **Applications**

- Hydraulic systems on industrial, mobile and marine equipment
- Automated machine tools
- Elevators, hoists, presses and floor jacks
- Marine cargo winches and steering systems
- Mobile construction equipment
- Service station lifts
- Air tools and other pneumatic equipment lubricated through air line lubricators
- Chain drives
- Electric motor bearings
- Moderately loaded enclosed industrial gearboxes that do not require an extreme-pressure (EP) gear oil

Megaflow AW Hydraulic Oil meets the requirements of the following industry and OEM specifications:

- Bosch Rexroth RE 90 220
- Denison Hydraulics HF-0, HF-1, HF-2
- DIN 51524 Part 2, Antiwear Hydraulic Oils, Type HLP
- German Steel Industry SEB 181222
- ISO 11158:1997, Family H (Hydraulic Systems), Type HM
- U.S. Steel 127
- Vickers (Eaton) M-2950-S, I-286-S

**High-Quality  
Antiwear Hydraulic  
Oil**

### **Contact Information**

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## ***Features/Benefits***

- Excellent wear protection for hydraulic pumps and motors
- Excellent oxidation resistance and thermal stability
- Protects against rust and corrosion
- Excellent water-separating properties
- Excellent filterability, even in the presence of a small amount of water
- Good foam resistance

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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## Megaflow™ AW Hydraulic Oil

### Typical Properties

ISO Grade	22	32	46	68	100	150	220	320
Specific Gravity @ 60°F	0.857	0.862	0.868	0.871	0.873	0.883	0.886	0.892
Density, lbs/gal @ 60°F	7.14	7.18	7.23	7.25	7.27	7.35	7.38	7.43
Color, AST500	0.5	0.5	0.5	0.5	0.5	3.0	4.0	5.0
Flash Point (COC),								
°C	196	216	227	238	252	274	274	282
°F	385	421	441	460	486	525	525	540
Pour Point,								
°C	-40	-37	-37	-33	-32	-21	-21	-15
°F	-40	-35	-35	-27	-26	-6	-6	5
Viscosity,								
cSt @ 40°C	22.0	31.0	46.0	68.0	100	149	220	320
cSt @ 100°C	4.3	5.4	6.8	8.7	11.0	14.7	19.2	24.3
SUS @ 100°F	115	160	237	353	523	782	1,162	1,703
SUS @ 210°F	40.7	44.4	49.0	55.5	63.9	78.5	97.7	121
Viscosity Index	104	104	100	99	98	98	98	97
Acid Number, ASTM D974, mg KOH/g	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Copper Corrosion, ASTM D130	1a	1a	1a	1a	1a	1a	1a	1a
Demulsibility, ASTM D1401,								
minutes to pass	10	10	10	10	10	10	10	10
Foam Test, ASTM D892	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
FZG Scuffing Test, ASTM D5182,								
Failure Load Stage	—	12	12	12	12	12	12	12
Oxidation Stability,								
TOST, ASTM D943-04a, hours	>5,000	>5,000	>5,000	>5,000	>5,000	>4,500	>4,500	>4,500
RPVOT, ASTM D2272, minutes	>270	>270	>270	>270	>270	>250	>250	>250
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Zinc, wt %	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043

### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

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