







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.

High-Quality Antiwear Hydraulic Oil

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
- Lightly to moderately loaded enclosed industrial gear drives that do not require a compounded or extreme-pressure (EP) gear oil

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

- Bosch Rexroth RE 90 220
- Cincinnati Machine P-68 (ISO VG 32), P-70 (ISO VG 46), P-69 (ISO VG 68) (approved)
- Denison Hydraulics HF-0, HF-1, HF-2
- DIN 51524 Part 2, Antiwear Hydraulic Oils, Type HLP
- German Steel Industry SEB 181222

Contact Information

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- ISO 11158:1997, Family H (Hydraulic Systems), Type HM
- U.S. Steel 127
- Vickers (Eaton) M-2950-S, I-286-S

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

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		
Specific Gravity @ 60°F	0.857	0.862	0.867	0.868		
Density, lbs/gal @ 60°F	7.14	7.18	7.22	7.23		
Color, ASTM D1500	0.5	0.5	0.5	0.5		
Flash Point (COC), °C (°F)	196 (385)	216 (421)	227 (441)	238 (460)		
Pour Point, °C (°F)	-40 (-40)	-37 (-35)	-37 (-35)	-33 (-27)		
Viscosity,						
cSt @ 40°C	22.0	31.0	46.0	68.0		
cSt @ 100°C	4.3	5.4	6.8	8.7		
SUS @ 100°F	115	160	237	353		
SUS @ 210°F	40.7	44.4	49.0	55.5		
Viscosity Index	104	104	100	99		
Acid Number, ASTM D974, mg KOH/g	0.38	0.38	0.38	0.38		
Copper Corrosion, ASTM D130	1a	1a	1a	1a		
Demulsibility, ASTM D1401, minutes to pass	10	10	10	10		
Foam Test, ASTM D892	Pass	Pass	Pass	Pass		
FZG Scuffing Test, ASTM D5182,						
Failure Load Stage	_	12	12	12		
Oxidation Stability,						
TOST, ASTM D943-04a, hours	>5,000	>5,000	>5,000	>5,000		
RPVOT, ASTM D2272, minutes	>270	>270	>270	>270		
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass		
Zinc, wt %	0.043	0.043	0.043	0.043		

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	100	150	220	320		
Specific Gravity @ 60°F	0.872	0.876	0.886	0.892		
Density, lbs/gal @ 60°F	7.26	7.30	7.38	7.43		
Color, ASTM D1500	0.5	3.0	4.0	5.0		
Flash Point (COC), °C (°F)	252 (486)	274 (525)	274 (525)	282 (540)		
Pour Point, °C (°F)	-32 (-26)	-21 (-6)	-21 (-6)	-15 (5)		
Viscosity,						
cSt @ 40°C	100	149	220	320		
cSt @ 100°C	11.0	14.7	19.2	24.3		
SUS @ 100°F	523	782	1,162	1,703		
SUS @ 210°F	63.9	78.5	97.7	121		
Viscosity Index	98	98	98	97		
Acid Number, ASTM D974, mg KOH/g	0.38	0.38	0.38	0.38		
Copper Corrosion, ASTM D130	1a	1a	1a	<u> 1a</u>		
Demulsibility, ASTM D1401, minutes to pass	10	10	10	10		
Foam Test, ASTM D892	Pass	Pass	Pass	Pass		
FZG Scuffing Test, ASTM D5182,						
Failure Load Stage	12	12	12	12		
Oxidation Stability,						
TOST, ASTM D943-04a, hours	>5,000	>4,500	>4,500	>4,500		
RPVOT, ASTM D2272, minutes	>270	>250	>250	>250		
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass		
Zinc, wt %	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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