



Megaflow™ AW HVI Hydraulic Oil

Megaflow AW HVI Hydraulic Oil is a high-quality, high viscosity index antiwear hydraulic oil developed for use in industrial and mobile equipment operating in cold climates or in locations subject to wide variations in ambient temperatures. 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. It is particularly recommended for year-round use in mobile equipment such as bucket trucks, cranes and aerial lifts.

Megaflow AW HVI Hydraulic Oil is specially formulated to have a high viscosity index and a low pour point for use over a wider temperature range than conventional antiwear hydraulic oils. It provides excellent wear protection for hydraulic pumps and motors, has good oxidation resistance and thermal stability at high temperatures to minimize deposit formation and provide long service life, and protects hydraulic system components against rust and corrosion. 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. It has excellent low-temperature properties for cold start-ups. It also has a high dielectric strength for use as insulating oil in electrical service repair trucks.

Applications

- Industrial and mobile equipment operating in cold weather or in locations subject to wide temperature fluctuations
- Bucket trucks (cherry pickers) used for servicing electrical power lines or for tree-trimming
- Hydraulic hoists and service station lifts
- Marine cargo winches and steering systems
- Off-road construction, mining and marine equipment
- Chain drives
- Electric motor bearings

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

- Denison Hydraulics HF-0, HF-1, HF-2
- DIN 51524 Part 3, Antiwear Hydraulic Oils, Type HVLP
- ISO 11158:1997, Family H (Hydraulic Systems), Type HV
- Vickers (Eaton) M-2950-S, I-286-S

**High VI Antiwear
Hydraulic Oil For
Wide Temperature
Ranges**

Customer Service
Number:
1-714-556-0808

Email Address:
Anthony@
Intraoil.com

Features/Benefits

- Excellent service over a wide temperature range
- Excellent wear protection for hydraulic pumps and motors
- Good oxidation resistance and thermal stability
- Protects against rust and corrosion
- Excellent water-separating properties
- Good foam resistance
- Excellent low-temperature properties for cold start-ups
- High dielectric strength for use in electrical service bucket trucks (cherry pickers)⁽¹⁾

⁽¹⁾ **Note:** In order to maintain its high dielectric strength for use as electrical insulating oil, the oil must be kept clean and dry. Contamination with water will significantly decrease the dielectric strength.

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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Megallow™ AW HVI Hydraulic Oil

Typical Properties						
ISO Grade	15	22	32	46	68	100
Specific Gravity @ 60°F	0.857	0.856	0.864	0.868	0.872	0.877
Density, lbs/gal @ 60°F	7.14	7.13	7.19	7.23	7.26	7.30
Color, ASTM D1500	0.5	0.5	0.5	0.5	0.5	0.5
Flash Point (COC), °C (°F)	183 (361)	193 (379)	204 (399)	213 (415)	218 (425)	218 (425)
Pour Point, °C (°F)	-55 (-67)	-50 (-58)	-45 (-49)	-45 (-49)	-42 (-44)	-42 (-44)
Viscosity,						
cSt @ 40°C	15.3	20.8	32.7	46.0	68.6	97.0
cSt @ 100°C	4.0	4.6	6.3	7.7	9.8	14.0
SUS @ 100°F	83.0	109	167	235	353	497
SUS @ 210°F	39.7	41.7	47.3	52.0	59.4	75.4
Viscosity Index	164	144	145	135	124	147
Acid Number, ASTM D974, mg KOH/g	0.38	0.38	0.38	0.38	0.38	0.38
Copper Corrosion, ASTM D130	1a	1a	1a	1a	1a	1a
Demulsibility, ASTM D1401,						
minutes to pass	15	15	15	15	15	15
Dielectric Strength, ASTM D877, kv ⁽²⁾	35	35	35	35	35	35
Foam Test, ASTM D892	Pass	Pass	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	>5,000	>5,000
RPVOT, ASTM D2272, minutes	>250	>250	>250	>250	>250	>250
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass	Pass	Pass
Zinc, wt %	0.043	0.043	0.043	0.043	0.043	0.043

⁽²⁾ At the point of manufacture

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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