

Multi-Vis AW Hydraulic Fluid

PRODUCT DESCRIPTION

Bel-Ray® Multi-Vis AW Hydraulic Fluids are high viscosity index (multi-viscosity) anti-wear lubricants formulated to deliver optimum performance in mobile and industrial equipment operating under wide temperature fluctuations for year-round service. The advanced anti-wear additives protect pumps and vital hydraulic components to reduce wear and extend equipment life.

Outstanding rust and corrosion protection helps safeguard equipment operating in wet conditions, while the excellent water separation characteristics help maintain lubrication performance in the presence of water contamination. These lubricants are blended with thermally stable mineral base oils and fortified with additive technology to resist oxidation and thermal degradation. Oxidation by-products such as sludge and varnish can plug valves and coat component surfaces, reducing hydraulic system efficiency.

Bel-Ray Multi-Vis AW Hydraulic Fluids meet the performance requirements of major hydraulic pump manufacturers and are recommended for modern high-pressure, high-speed, high-power-density hydraulic systems. They provide efficient power transmission and responsive hydraulic system operation across a wide operating temperature range.

PRODUCT FEATURES and BENEFITS

- High viscosity index minimizes viscosity changes over a wide temperature range to support efficient power transmission and responsive hydraulic system operation.
- Excellent low-temperature fluidity enables efficient oil flow and lubrication of hydraulic system pumps and components to minimize wear during cold starts and low-temperature operation.
- Advanced anti-wear additives and corrosion inhibitors protect critical hydraulic system components from wear, rust, and corrosion to improve reliability and extend equipment life.
- Superior oxidation resistance and thermal stability minimize lubricant degradation and deposit formation to extend lubricant life in demanding applications, including modern high-power-density hydraulic systems with reduced sump volumes.
- Excellent demulsibility promotes rapid water separation, helping maintain lubricant performance while allowing accumulated water to be readily drained.
- Excellent foam resistance provides rapid air release and effective foam control in compact hydraulic systems with low fluid residence times, helping maintain responsive hydraulic system operation by preventing spongy control response.
- Balanced formulation is compatible with elastomers and seals to help minimize leakage and prevent contamination.

DISTRIBUTED BY:

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APPLICATIONS

Bel-Ray Multi-Vis AW Hydraulic Fluids are recommended in mobile and industrial hydraulic systems operating in environments with wide temperature fluctuations. Their high dielectric strength also makes them suitable for hydraulic equipment operating near high-voltage electrical equipment.

SPECIFICATIONS and APPROVALS

Bel-Ray Multi-Vis AW Hydraulic Fluids are recommended for use and meet the requirements for:

- AIST 126, 127
- ASTM D6158 HV
- Bosch Rexroth RDE 90235
- DIN 51524-3 HVLP
- Danfoss / Eaton / Vickers E-FDGN-TB002-E, I-286-S, M-2950-S
- Fives Cincinnati P68, P69, P70
- GB 11118.1-2011 (L-HL, L-HM, L-HV, L-HS)
- ISO 11158 L-HV
- JCMAS P041 HK
- Parker / Denison HF-0, HF-1, HF-2 HV

PRODUCT DATA

Typical Properties				
Property	Test Method	ISO 32	ISO 46	ISO 68
Viscosity @ 40°C (cSt)	ASTM D445	33.2	46.3	66.2
Viscosity @ 100°C (cSt)	ASTM D445	6.3	8.0	10.6
Viscosity Index	ASTM D2270	143	144	151
Density @ 15°C (g/mL)	ASTM D4052	0.8674	0.8715	0.8754
Flash Point, (°C)	ASTM D92	209	217	221
Pour Point, (°C)	ASTM D97	-60	-51	-45
Copper Corrosion, 3 h @ 100°C (Rating)	ASTM D130	1b	1b	1b
Rust Prevention	ASTM D665A&B	Pass	Pass	Pass
Air Release @ 50°C, (min)	ASTM D3427	1.9	3.7	8.9
Foam Test, Sequence I, Tendency/Stability mL/mL (s)	ASTM D892	2/0	3/0	2/0
Foam Test, Sequence II, Tendency/Stability mL/mL (s)	ASTM D892	20/0	30/0	10/0
Foam Test, Sequence III, Tendency/Stability mL/mL (s)	ASTM D892	20/0	20/0	20/0
Demulsibility, Oil/Water/Emulsion (time), mL/mL/mL (min)	ASTM D1401	42/38/0 (15)	41/39/0 (15)	41/39/0 (15)
Dielectric Breakdown, (kV)	ASTM D877	43.7	40.2	45.7

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TECHNICAL DATA SHEET



HEALTH and SAFETY

For health and safety information, refer to the Safety Data Sheet (SDS) available at www.belray.com.

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