



Premium AW Hydraulic Fluid

Bel-Ray® Premium AW Hydraulic Fluid is a special hydraulic fluid formulated from highly-refined base stocks and an advanced additive system to deliver ultimate equipment protection with extended service intervals. Bel-Ray® Premium AW Hydraulic Fluid delivers optimum fluid performance over a wide-range of operating temperatures and conditions. It also exhibits excellent demulsification (water separation) properties, even at high operating temperatures and operating pressures.

APPLICATIONS

Suitable for use in applications that specify:

- AFNOR NF E 48-603 (HM, HV)
- AIST (US Steel) 126, 127
- ASTM D6158 HL, HM
- Bosch Rexroth RDE-90235
- DIN 51524, part 2 & 3 (HLP, HVLP)
- Eaton Brochure 694 for 35VQ25A
- Eaton I-286-5 & M-2950
- Fives Cincinnati P-68, P-69 & P-70
- GM LS-2 Anti-wear Hydraulic Oil
- ISO 6743/4 (HM, HV)
- ISO 11158 (HM, HV)
- Parker Denison HF-0, HF-1, HF-2

PRODUCT FEATURES

- Formulated with premium base stocks provide oxidation resistance
- Provides active anti-wear agents to protect critical hydraulic system components
- Special additive chemistry to increase corrosion protection
- Formulated to minimize air entrainment

BENEFITS

- Greater protection against thermal breakdown for longer oil life
- Excellent wear protection for increase equipment reliability
- Increased protection against rust and other chemical attack of metal components
- Smooth hydraulic operation through rapid air release and anti-foam action

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Typical Physical Properties

Property	Test Method	22	32	46	68	100
ISO Viscosity Grade	ISO 3448	22	32	46	68	100
Density@15°C, g/cm ³	ASTM D4052	0.864	0.868	0.872	0.874	0.881
Viscosity @ 40°C, cSt	ASTM D445	21.98	32.4	47.675	64.716	103.7
Viscosity @ 100°C, cSt	ASTM D445	4.27	5.463	6.937	8.375	11.33
Viscosity Index	ASTM D2270	97	103.47	99.71	98.07	95
Flash Point, °C (°F)	ASTM D92	191 (376)	204 (400)	221 (430)	243 (470)	247 (476)
Pour Point, °C (°F)	ASTM D97	-48 (-54)	-41 (-42)	-37(-35)	-32 (-26)	-27 (-17)
Rust Prevention, Dist. Water	ASTM D665A	Pass	Pass	Pass	Pass	Pass
Rust Prevention, Sea Water	ASTM D665B	Pass	Pass	Pass	Pass	Pass
Copper Corrosion	ASTM D130	1B	1B	1B	1B	1B
Foam Tendency, Seq. I, II, III	ASTM D892	0/0	0/0	0/0	0/0	0/0
Demulsibility, @ 130°F	ASTM D1401	38/39/3 (10)	40/40/0 (20)	40/40/0 (20)	39/40/1 (15)	40/40/0 (10)

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