

## Clear Blue Ashless AW Hydraulic Oil

### PRODUCT DESCRIPTION

Bel-Ray® Clear Blue Ashless AW Hydraulic Oils are special hydraulic fluids formulated from highly refined base stocks and proprietary zinc-free additive technology to offer ultimate protection of operating equipment and the environment. The zinc-free (ashless, no ZDDP in composition) additive formulation was developed for service applications within environmentally sensitive areas such as parks, bodies of water, recreational areas, amusement parks, ski resorts, in-ground lifts and equipment operating in populated areas. Bel-Ray Clear Blue Ashless AW Hydraulic Oils are non-toxic to sea life and non-hazardous to surrounding inhabitants in case of an accidental leak, release or spill. It also meets requirements for U.S. EPA 40 CFR Static Sheen Test (water sheen or slick) in ambient seawater and EPA LC50 Saltwater Test (Shrimp Kill).

### PRODUCT FEATURES and BENEFITS

- Dyed BLUE to differentiate from non-environmentally friendly fluids
- Offers superior performance when compared to vegetable-based fluids
- Cost-effective when compared to synthetic based environmental fluids
- Optimum wear protection for hydraulic pumps and motors
- Superior corrosion protection against steel and non-ferrous metals
- Safe for use in applications containing yellow metal gear components
- Inherently biodegradable (ASTM D5864 Standards)

### APPLICATIONS

Bel-Ray Clear Blue Ashless AW Hydraulic Oil is suitable for hydraulic fluids according to:

- Parker Denison HF-0, HF-1, HF-2
- Fives Cincinnati P-68, P-69, P-70
- DIN 51524, part 2 and 3 (HLP, HVLP)
- ISO 11158 (HM, HV)
- AFNOR NF E 48-603 (HM, HV)
- SS 155434
- SEB 181 222
- AIST (U.S. Steel) 126, 127 and 136
- GM LS-02
- ISO 6743/4 (HM, HV)

#### DISTRIBUTED BY:

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# TECHNICAL DATA SHEET



Bel-Ray Clear Blue Ashless AW Hydraulic Oil is suitable for compressor fluids according to:

- DIN 51506 (VBL, VCL, VDL)
- ISO / DP 6521 (DAA, DAB, DAH, DAG)

## PRODUCT DATA

Typical Properties				
Property	Test Method	32	46	68
Density @ 15°C (g/mL)	ASTM D4052	0.861	0.863	0.872
Viscosity @ 40°C (cSt)	ASTM D445	31.6	46.0	68.5
Viscosity @ 100°C (cSt)	ASTM D445	5.40	6.95	8.54
Viscosity Index	ASTM D2270	105	107	94
Flash Point, °C (°F)	ASTM D92	198 (385)	227 (441)	227 (441)
Pour Point, °C (°F)	ASTM D97	-18 (0)	-18 (0)	-12 (10)
API Gravity @ 60°F	ASTM D4052	32.5	32.2	31.4
Copper Corrosion, 3 h @ 100°C (Rating)	ASTM D130	1a	1a	1a
Rust Prevention	ASTM D665A&B	Pass	Pass	Pass
Zinc (Wt %)	ASTM D6481	0	0	0

## HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) at [www.belray.com](http://www.belray.com)

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