



Raylene™ Ashless Multi-Viscosity Hydraulic Oil

PRODUCT DESCRIPTION

Bel-Ray® Raylene™ Ashless Multi-Viscosity Hydraulic Oil is a high performance, zinc-free hydraulic oil. The product's high Viscosity Index promotes excellent low temperature fluidity as well as high temperature viscosity stability. The exceptional anti-wear property of Raylene Ashless Multi-Viscosity Hydraulic Oil reduces component wear, and its ashless formula eliminates metallic additive deposits for clean and trouble-free operation. The excellent demulsibility characteristic of Raylene Ashless Multi-Viscosity Hydraulic Oil promotes rapid and complete water separation for easy drainage. Raylene Ashless Multi-Viscosity Hydraulic Oil meets the requirements of most major OEMs for zinc-free hydraulic oils as well as Denison HF-0, DIN 51524 Part 3 (HVLP) and ISO 6743-4 (L-HV) specifications.

PRODUCT FEATURES and BENEFITS

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| • Ashless | No metallic residues or deposits. Clean operating. Promotes efficient component operation. |
| • Oxidation Stability | Significantly extends oil service life and protects tight machine clearances from deposits or varnish. |
| • Superior anti-wear protection | Reduces Hydraulic pump and system component wear for extended component life and reduced costs. Suitable for use in circulation systems. |
| • Excellent demulsibility | Rapid water separation for easy drainage from the hydraulic tank promoting consistent system pressure. |
| • High viscosity shear stability | Maintains viscosity providing maximum component protection and extended drain intervals. |
| • Red or green in color | Easy leak detection. |

APPLICATIONS

- Recommended applications where DIN Part 3 (HVLP) and ISO 6743-4 (L-HV) ISO 46 is required.
- Recommended for hydraulic systems with vane, piston, or gear type pumps.
- Recommended for circulating systems.

DISTRIBUTED BY:
 Calumet Branded Products, LLC
 1060 N Capitol Ave
 Suite 6-401
 Indianapolis, IN 46204
 Technical Services: 317-328-5660
 www.belray.com

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PRODUCT DATA

Typical Properties		
Property	Test Method	46
ISO Viscosity Grade		46
Viscosity @ 40°C (cSt)	ASTM D445	44.6
Viscosity @ 100°C (cSt)	ASTM D445	7.77
Viscosity Index	ASTM D2270	144
Pour Point, °C (°F)	ASTM D97	-45 (-49)
Copper Corrosion, 3 h @ 100°C (Rating)	ASTM D130	1a
Rust Prevention	ASTM D665A&B	Pass
Demulsibility, Oil/water/emulsion (time), mL/mL/mL (min)	ASTM D1401	40/40/0 (15)
Foam Test, Sequence I, Tendency/Stability (mL/mL)	ASTM D892	Nil
Foam Test, Sequence II, Tendency/Stability (mL/mL)	ASTM D892	Nil
Foam Test, Sequence III, Tendency/Stability (mL/mL)	ASTM D892	Nil
Oxidation Lifetime, h	ASTM D943	2688
Total Acid Number, mg KOH/g	ASTM D974	0.72
Falex Pin & Vee Block Test Method B, non seizure load (lbf)	ASTM D3233	2500

HEALTH and SAFETY

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

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