

# PRODUCT DATA SHEET

## PREMIUM ANTI-WEAR HYDRAULIC OIL

# PureBlu Hydraulic Oil

With Leak Detection Formulation

### GENERAL DESCRIPTION

**BlueSky PureBlu Hydraulic Oils** are premium-quality anti-wear hydraulic oils with excellent stability, designed to meet the most stringent requirements of most all major manufacturers and users of hydraulic equipment. These oils are characterized by outstanding rust protection, low deposit formation, good demulsibility, rapid release of entrained air, oxidation resistance, low pour points and good anti-foam properties. They also contain an effective anti-wear agent that helps reduce wear in high speed, high-pressure vane and gear pumps. In addition, a blue, leak detection dye is added to help assist in recognizing fluid leaks from you piece of equipment.

**BlueSky PureBlu Hydraulic Oils** are recommended for use in vane, gear and piston pumps operated above 3000 psi. These anti-wear hydraulic oils are very effective in reducing vane and gear pump wear and greatly extend the life of systems operating at high loads, speeds and temperatures.

### RECOMMENDED APPLICATIONS:

Cincinnati Lamb, Hagglunds-Denison HF-0 and HF-2, Vickers M-2950-S and I-286-S, Passes Vickers 35VQ25 and V104C (ASTM D2882) vane pump tests, passes Denison P-46 piston pump and T-6C vane pump tests, U.S. Steel 127 and 136, and DIN 51524 Part II.

**BlueSky PureBlu Hydraulic Oils** are particularly well suited for all industrial and mobile hydraulic system applications. These products satisfy the requirements of major hydraulic equipment manufacturers and are suitable for all types of hydraulic pumps except for the very small number of pumps containing silver plated parts which still require non-zinc oils.

#### Benefits

- Excellent wear protection
- Rapid release of any entrained air
- Oxidation and thermal stability for long life
- Excellent rust and corrosion protection
- Easy filterability

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NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suit ability. Product typical this publication are current as of February 2013.

## Physical Properties

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### PREMIUM ANTI-WEAR HYDRAULIC OIL

PUREBLU HYDRAULIC	AW 32	AW 46	AW 68	AW 100	AW 150
ISO Viscosity Grade	<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>	<b>150</b>
SAE Viscosity Grade	10W	20W	20W	30W	40W
Specific Gravity	.871	.876	.884	.885	.882
Flash Point ° F ( ° C )	405 (208)	405 (208)	410 (210)	410 (210)	450 (232)
Pour Point ° F.	-27	-27	-27	-6	10
Appearance	Light Blue	Light Blue	Light Blue	Dark Blue	Dark Blue
Viscosity					
@ 40 ° C, cSt	32	46	68	100	150
@ 100 ° C, cSt	5.4	6.9	8.9	11.5	14.6
@ 100 ° F, SUS	165	227	352	525	790
@ 210 ° F, SUS	44	48	56	66	78
Viscosity Index	100	100	100	100	95
Gravity, ° API	31.5	30.0	28.5	28.4	28.9
Rust Test, ASTM D665	Pass	Pass	Pass	Pass	Pass
Oxidation ASTM D-943	5000 +	5000 +	5000 +	5000 +	4500 +
Total Acid Number, ASTM D664	0.6	0.6	0.6	0.6	0.6