PURUS® ZINC FREE AW HYDRAULIC OILS

Made in USA

DESCRIPTION

PURUS® Zinc Free AW Hydraulic Oils are premium quality anti-wear hydraulic oils which are formulated using non-zinc containing additive technology. These products provide the product performance of premium anti-wear hydraulic oil, without the heavy metals which reduces concerns of many regulatory agencies. PURUS® Zinc Free AW Hydraulic Oils are non-toxic to fish and aquatic species as determined by OECD Test Method 203 and is classified as inherently biodegradable by OECD Test Method 301B.

PURUS® Zinc Free AW Hydraulic Oils are recommended for use in all applications calling for anti-wear hydraulic oil and meet or exceed the current and former specifications: Fives Cincinnati P-68, P-69, P-70 (obsolete), Parker (formerly Denison) HF-0, HF-1, and HF-2, Eaton E-FDGN-TB002-E, Bosch Rexroth RDE 90220 (obsolete) and 90235, DIN 51524-II (HM), ASTM D6158 (HM), ISO 11158 (HM), AIST 126, 127, SAEMS 1004 (HM), GM LS2, SEB 181222, and JCMAS P041 HK Hydraulic specification. Inherently Biodegradable and non-toxic to aquatic organisms. Suitable for use in applications which cite former or obsolete specifications such as Fives Cincinnati P-68, P-69, P-70 and Bosch Rexroth RDE 90220.

PURUS® Zinc Free AW Hydraulic Oils are purpose built to meet these industry drivers and challenges:

- Environmental Compliance & Sustainability Requirements
- Hydraulic System Reliability & Wear Protection
- Longer Fluid Life & Reduced Maintenance Costs

PERFORMANCE BENEFITS

INDUSTRY DRIVERS	*PURUS SUPPORTING TECHNOLOGY*	*PURUS BENEFITS & ADVANTAGES*
Environmental Compliance & Sustainability Requirements	• Zinc-free additive technology • Non-toxic formulation (OECD 203) • Inherently biodegradable chemistry (OECD 301B)	• Reduces environmental concerns associated with heavy metals • Safer for environmentally sensitive applications and aquatic environments • Supports sustainability initiatives and regulatory compliance efforts • Helps reduce environmental liability and disposal concerns
Hydraulic System Reliability & Wear Protection	• Premium anti-wear (AW) additive system • Rapid air release properties • Excellent rust and corrosion protection	• Reduces wear in hydraulic pumps and components • Protects systems operating under high pressure and severe duty • Minimizes foaming and cavitation issues • Improves equipment reliability and service life
Longer Fluid Life & Reduced Maintenance Costs	• Outstanding oxidation and thermal stability • Easy filterability • Highly refined base oils	• Extends hydraulic fluid life and drain intervals • Maintains cleaner hydraulic systems and filters • Reduces downtime and maintenance frequency • Improves operational efficiency in industrial and mobile equipment

TYPICAL PROPERTIES*

ISO Viscosity Grade	32	46	68
SAE Viscosity Grade	10W	20W	20W
Specific Gravity	0.864	0.869	0.873
Flash Point °F (°C)	423 (217)	444 (229)	473 (245)
Pour Point Deg °C.	-40	-37	-35
Appearance	Light Pale	Light Pale	Light Pale
Viscosity @ 40 Deg. °C, cSt (@ 100 °F, SUS)	34.4 (150.5)	49.35 (214)	71.72 (315)
Viscosity @100 Deg. °C, cSt (@ 210 °F, SUS)	5.8 (151.5)	7.2 (216)	9.2 (318)
Viscosity Index	109	106	103
Gravity, API	32.43	31.39	30.58
Oxidation, ASTM D943, hours	8500	6000	10000
Aquatic Toxicity, OECD 203	Nontoxic	Nontoxic	Nontoxic
Biodegradability in 28 days, OECD 301-B, %	34%	34%	34%

*Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification.
Typical properties may vary slightly.

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PRODUCT	5 GAL PAIL	DRUM	TOTE	BULK
ZF AW 32	PHD27103	PHD17103	PHD57103	17103
ZF AW 46	PHD27104	PHD17104	PHD57104	17104
ZF AW 68	PHD27105	PHD17105	PHD57105	17105