



A/W HYDRAULIC

(Premium Hydraulic Oils)

Every day, more and more demands are being placed on hydraulic systems - more production, hotter conditions, higher pressures, and longer operating hours. All these factors place more stress on the oil used to drive these systems. **A/W** anti-wear hydraulic oils are well suited for today's high pressure, high output hydraulic systems. **A/W** anti-wear hydraulic oils are high performance oils and have the capability to withstand the stress of high temperatures, pressures and constant use.

A/W anti-wear hydraulic oils are formulated from the finest, high quality base stocks and are further fortified with high performance additives to enhance their capability. Highly effective anti-wear additives minimize pump wear, even in high speed, high-pressure systems which utilize vane, piston or gear pumps.

Water is a common contaminant in hydraulic systems. The additives used in some hydraulic oils react with water forming deposits that hamper performance and plug filters. **A/W** anti-wear hydraulic oils utilize additives that are specially selected to perform in the presence of water. **A/W** anti-wear hydraulic oils produced excellent results in the rigorous Dennison HF-O filterability test where the oil is mixed with water and filtered through a 1.2 micron filter.

A/W anti-wear hydraulic oils contain potent oxidation inhibitors limiting the formation of sludge, varnish and other deposits. This keeps systems cleaner and extends oil life. Rust inhibitors prevent corrosion even when water is present.

Foaming can cause erratic operation and can also damage pumps. **A/W** anti-wear hydraulic oils contain foam inhibitors that prevent foaming and provide more reliable operation.

BENEFITS:

- EXCELLENT WEAR PROTECTION
- SUPERIOR OXIDATION STABILITY REDUCES SLUDGE VARNISH, AND DEPOSITS
- DESIGNED FOR HIGH-SPEED, HIGH-PRESS SYSTEMS
- EXCELLENT DEMULSIBILITY
- GOOD ANTIFOAM AND AIR RELEASE PROPERTIES

APPLICATIONS:

A/W anti-wear hydraulic oils satisfy the requirements set by all major hydraulic equipment manufacturers including Vickers, Parker, Bosch Rexroth, MAG (Cincinnati Machine), AFNOR and others. They are recommended for all types of hydraulic systems, especially those that operate up to 10,000 psi.

A/W anti-wear hydraulic oils can be used in systems containing all types of hydraulic pumps including gear, radial piston, vane, and axial piston pumps. They are suitable for both stationary and mobile equipment service.

A/W anti-wear hydraulic oils are also recommended for many bearings, machine tools, chains, light to moderately loaded gears and other areas where general-purpose oil is required.

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SPECIFICATIONS

- PARKER (formerly DENISON) HF-0, HF-1, HF-2
- VICKERS I-286-S, M-2950-S
- ISO 6743/4 CATEGORY L-HM
- BOSH REXROTH RE 90220;
- MAG (CINCINNATI MILACRON) P68, P-69, P70
- DIN 51524 PART 2 CATEGORY HLP
- AFNOR E48603 CATEGORY HM; AIST 126, 127
- SEB 18122

TYPICAL CHARACTERISTICS

Product Name	A/W 32	A/W 46	A/W 68
ISO Viscosity Grade	32	46	68
Viscosity @ 40°C, cSt	32.0	46.0	68.0
Viscosity @ 100°C, cSt	5.3	6.2	8.7
Viscosity @ 100°F, SUS	160	232	342
Viscosity @ 210°F, SUS	44	48	55
Specific Gravity (ASTM D-1298) @ 60/60 °F	0.867	0.872	0.874
Viscosity Index (ASTM D-2270)	> 99	>99	>99
Pour Point (ASTM D-97) °F	-20	-20	-15
Flash Point, COC (ASTM D-92) °F	405	410	430
Oxidation Test (ASTM D-943) hours	> 6500	>6500	>6500
Copper Strip Corrosion (ASTM D 130)	1A	1A	1A
4 Ball Wear Test (ASTM D-2266) mm @ 75°C, 40kg, 1 hr @ 1200 rpm	0.45	0.45	0.45

The above data is subject to usual manufacturing variation.

Distributed and packaged by Purser Oil Company, Charlotte, NC
Specifications subject to change without notice
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Visit our website: www.PurserOil.com

