

Product Description: Signature® AW Hydraulic Oils are designed to give excellent hydraulic pump protection.

Customer Benefits

Signature® AW Hydraulic Oils deliver value through:

- Good oxidation stability: provide good service life in high pressure service.
- Rust and corrosion protection: Give excellent protection against corrosion of both copper and steel, and passes the ASTM D665A distilled water rust test and ASTM D665B synthetic sea water rust test.
- Minimum viscosity change over a wide temperature range
- Good foam inhibition: Contain special foam suppressant, minimizing both foaming and aeration problems.
- Excellent antiwear properties
- Meets major pump manufacturer's requirements: ISO 32,46, and 68 meet the requirements of leading hydraulic pump manufacturers for antiwear-type hydraulic fluids in both vane – and piston-type pumps.
- Good stability in the presence of water by ASTM D2619 Hydrolytic Stability test and the Denison hybrid T6H20C Wet Pump test
- Good thermal stability in the presence of copper and steel by the MAG Cincinnati Machine Thermal Stability, Procedure A, test.
- Fast water separation: Minimize rust problems by fast release of water.

Features

Signature® AW Hydraulic Oils are formulated with refined paraffinic base oils. They provide excellent antiwear protection, oxidation and corrosion inhibition, as well as foam and aeration suppression. All grades have excellent demulsibility characteristics.

Hydraulic systems, due to the nature of their operation, experience accelerated wear unless they are protected by clean, high quality antiwear hydraulic oils. Surging pressures in pumps and valves can increase metal-to-metal contact unless antiwear protection is present. The antiwear additives in Signature® AW Hydraulic Oils create a protective film on the metal surfaces. This protective film minimizes metal-to-metal contact, which is most severe in vane- and gear-type pumps. As hydraulic pressures increase over 1000 psi, the need for antiwear protection increases proportionally.

Applications

Signature® AW Hydraulic Oils are versatile lubricants available in ISO viscosity grades 22, 32, 46, 68, 100. ISO 32, 46, and 68 grades are most commonly used for hydraulics with vane-, piston-, or gear-type pumps, especially where pressures exceed 1000 psi. They can also be used to lubricate lightly loaded reciprocating compressors.

Signature® AW Hydraulic Oils:

- Meet major pump manufacturer requirements including **Eaton-Vickers** 35VQ25A for M-2950-S (Mobile) and I-286-S (Stationary), **Parker Hannifin (Denison)** HF0/HF2/T6H20C, and **Bosch Rexroth Racine** Model S
- Meet **MAG Cincinnati, Cincinnati Machine** specification P-68 (ISO 32), P-70 (ISO 46), and P-69 (ISO 68) • Meet **DIN 51524-2**

Product (s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

- Are registered by NSF and are acceptable as lubricants where there is no possibility of food contact (H2) in and around food processing areas. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements of appropriate use, ingredient review and labeling verification.

Please consult with your equipment manufacturer if equipment is operating outside normal operating conditions. Do not use in high pressure systems in the vicinity of flames, sparks, and hot surfaces. Use only in well ventilated areas. Keep container closed.

SAE Grade	22	32	46	68	100
API Gravity	27-32	32.6	31.8	31.6	30.1
Kinematic Viscosity cSt at 100° C	4.30	5.2	6.5	8.4	11.0
Kinematic Viscosity cSt at 40° C	22	30.4	43.7	64.6	95.0
Viscosity Index	100	98	98	99	100
Flash Point ° C (° F)	Not Available	220(428)	226(439)	235(455)	250(482)
Pour Point, ° C (° F)	-24	-25(-13)	-23(-9)	-22(-8)	-15(+5)
Oxidation Stability Hours to 2.0 mg KOH/g acid number, ASTM D943	>5000	>5000	>5000	>5000	>2000

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