

Product Data Sheet

DESCRIPTION

Pro Performance Anti-Wear Hydraulic Fluids are general purpose hydraulic fluids formulated with refined paraffinic base oils to provide excellent anti-wear 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 anti-wear hydraulic oils. Surging pressures in pumps and valves can increase metal-to-metal contact unless anti-wear protection is present. The anti-wear additives in Pro Performance AW Hydraulic Fluids 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, the need for anti-wear protection increases proportionally.

Specially formulated to suppress foaming while also allowing rapid air release, improving hydraulic system performance, and helping to prevent pump cavitation. Oxidation inhibitors provide control of sludge and varnish deposits and increase service life.

Pro Performance AW Hydraulic Fluids are suitable for use where service requirements are light to moderate, and heavy-duty wear or long-term service is not critical, and is available in viscosity grades ISO 22 to ISO 100. When used in the proper grade, it will provide excellent service in hydraulic systems and air compressors, industrial bearings, hoists, and machine tools, and circulating, splash, bath and ring lube systems for bearings and gears.

PERFORMANCE BENEFITS

- **Good oxidation stability** — Provide good service life in high pressure service.
- **Rust and corrosion protection** — Excellent protection against corrosion of both copper and steel, and passes the ASTM D665A
- **Good foam inhibition** — Contain special foam suppressant, minimizing both foaming and aeration problems. Excellent anti-wear properties
- **Meets major pump manufacturer's requirements** — ISO 32, 46 and 68 meet the requirements of leading hydraulic pump manufacturers for anti-wear type hydraulic fluids in both vane and piston-type pumps.
- **Good stability in the presence of water** by ASTM D2619 Hydrolytic Stability test and Denison Hybrid T6H20C Wet Pump test.
- **Good thermal stability** in the presence of copper and steel.
- **Fast water separation** — Minimize rust problems by fast release of water.

Plymouth Lubricants

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RECOMMENDED APPLICATIONS:

- Eaton-Vickers 694 for 35VQ25A (formerly M-2950-S (Mobile) and I-286-S (Stationary)) (ISO 32, 46, 68)
- Parker Hannifin (Denison) HF0/T6H20C (ISO 32, 46, 68) , HF-1, HF-2
- Bosch Rexroth Racine Model S (ISO 32, 46, 68)
- ASTM D6158 HM (ISO 32, 46, 68)
- DIN 51524-2 (ISO 32, 46, 68)
- ISO 11158 HM
- US Steel 126 and 127 (ISO 32, 46, 68)
- Fives (Cincinnati Milacron) P-68, P-69, P-70 (ISO 32, 46, 68)
- GM LS-2 (ISO 32, 46, 68)

Typical Characteristics

Property	Method	22	32	46	68	100
Kinematic Viscosity @40° C cST	D-445	23.7	32.3	43.6	66.5	98
Viscosity Index	D-2270	120	115	115	112	114
Pour Point, C (F)	D -5949	-42 (-43)	-39 (-38)	-36 (-33)	-33 (-27)	-21 (-6)
Flash Point, Deg. C (F)	D-92	202 (396)	230 (446)	248 (478)	254 (489)	254 (489)
Color	D-1500	1	1	1.5	2.5	3.5
Oxidation Stability, Hours	D-943	6000	6000	6000	6000	2500
Demulsibility (water separation)	D-1401	Pass	Pass	Pass	Pass	Pass