



Product Data Sheet

Hydrol AW Hydraulic Oils Anti-Wear Hydraulic Oils

DESCRIPTION

Nemco Hydrol AW Hydraulic Oils (Hydrol AW) are premium quality anti-wear hydraulic oils designed to provide maximum pump life and trouble-free service in heavy-duty industrial and mobile hydraulic applications. They possess proven protection against wear, have outstanding oxidation and thermal stability and are able to satisfy low ambient temperature applications in appropriate viscosity grades. Their properties make them suitable for vane, gear or piston type hydraulic pumps and motors.

Applications

Recommended for many industrial applications where oil anti-wear performance is required, including:

- Hydraulic systems (including high pressure systems) manufactured by Eaton/Vickers, Parker/Denison, Sauer-Danfoss, Bosch-Rexroth, Racine, Oilgear, Hydreco, Dynex and others
- Circulating systems
- General hand oiling
- Oil mist applicators
- Machine Tools
- Bearings - journal, antifriction
- Gear cases
- Electric motors
- Textile machinery

Pump Type	Hydrol AW Viscosity Grade
Vane, Gear and Axial piston pumps	32, 46 or 68
Oil gear pumps requiring heavy oil	100
Piston pumps (radial)	150
Pumps requiring extra heavy oil	150

Meets and/or exceeds

- Parker/Denison HF-0, HF-1, HF-2
- AFNOR E48-603
- Bosch Rexroth RD 90220
- Cincinnati Machine P-68, P-69, P-70
- DIN 51524 Part 1 HL (AW 22), and Part 2 HLP
- GM LS-2
- U.S. Steel 126, 1127, 1136
- Eaton Vickers I-286-S, M-2950-S

Notes

Always check your service manual for oil selection and service life.

Typical Characteristics – Hydrol AW Hydraulic Oils

ISO Viscosity Grade	22	32	46	68	100	150
AGMA No. (non-EP)	n/a	n/a	1	2	3	4
Viscosity cSt at 40°C cSt at 100°C	22.0 4.31	32.2 5.33	45.0 6.63	68.4 8.53	100.9 11.39	142.2 13.71
Viscosity index D2270	100	101	98	98	94	91
Flash point °C (°F) D92	212 (414)	218 (424)	229 (444)	225 (437)	249 (480)	245 (473)
Pour point °C (°F)	-34 (-29)	-32 (-26)	-30 (-22)	-29 (-20)	-26 (-15)	-18 (0)
Rust preventative test	Pass	Pass	Pass	Pass	Pass	Pass
Colour D1500	L1.0	L1.0	L1.0	L1.5	L2.0	3.5
Oxidation stability (hours to 2.0 TAN), ASTM D943	5000+	5000+	5000+	5000+	5000+	5000+

Physical characteristics shown in the table are typical and may vary slightly.