



# Product Data Sheet

## Hydrol AW Oils

### Anti-Wear Hydraulic Oils

#### DESCRIPTION

Nemco Hydrol AW Oils 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 satisfy low ambient temperature applications in appropriate viscosity grades. Their properties make them suitable for vane, gear or piston type hydraulic pumps and motors.

#### Advantages

- Excellent hydrolytic stability
- Superior rust and yellow metal corrosion protection
- Minimal increase in air entrainment
- Excellent wet and dry filterability per ISO 13357
- Outstanding thermal and oxidative stability
- Excellent wear protection for longer pump life

#### Applications

- Industrial applications
- High pressure systems
- Eaton/Vickers
- Parker/Denison
- Sauer-Danfoss
- Bosch-Rexroth
- Racine
- Oilgear
- Hydreco
- Circulating systems
- General hand oiling
- Oil mist applicators
- Machine tools
- Bearings; journal, antifriction
- Gear cases
- Electric motors
- Textile machinery
- Vane, Gear and Axial piston pumps (AW 32, 46, 68)
- Oil gear pumps requiring heavy oil (AW 100)
- Piston pumps (radial) and pumps requiring extra heavy oil (AW 150)

#### Meets and/or Exceeds:

- ASTM D6158 HL, HM, HV
- Bosch Rexroth RDE-90235
- Chinese Standard GM 11118.1 L-HL, L-HM
- Danieli 0.000.001 Type 10, 11
- DIN 51524 Part 1, 2, 3
- Eaton Brochure 03-401-2010
- Eaton Lubricant Spec E-FDGN-TB002-E
- Fives Cincinnati P-68, P-69, P-70
- GM LS-2 Anti-wear hydraulic oil
- ISO 11158 HL, HM, HV
- JACMAS HK P041
- Parker Denison HF-1, HF-2, HF-0
- SAE MS1004
- Swedish Standard SS 155434:2015
- US Steel 126
- ZF TE-ML 07H, ZF TE-ML 21M

#### Use and Storage

To get the best performance from your equipment ensure products meet or exceed manufacturing requirements. Lubricants typically have a shelf life of 5 years under ideal storage conditions. Keep drums and totes in good condition and away from moisture.

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Keep bungs securely in place; as bungs breath moisture can seep in over time. Where possible, avoid storage in areas where the temperature fluctuates between extreme highs and lows.

### Typical physical characteristics – Hydrol AW Oils

Properties	Method	Performance					
ISO Viscosity Grade		22	32	46	68	100	150
AGMA No. (non-EP)		n/a	n/a	1	2	3	4
Kinematic Viscosity @40°C mm <sup>2</sup> /s	ASTM D445	22.0	32.2	45.0	68.4	100.9	162.2
Kinematic Viscosity @100°C mm <sup>2</sup> /s	ASTM D445	4.31	5.33	6.63	8.53	11.39	15
Viscosity Index	ASTM D2270	101	97	98	94	99	92
Oxidation Stability (hrs to 2.0 TAN)	ASTM D943	5000+	5000+	5000+	5000+	5000+	5000+
Rust Prevention	ASTM D665	Pass	Pass	Pass	Pass	Pass	Pass
Flash Point (COC) °C(F)	ASTM D92	212(414)	218(424)	229(444)	225(437)	249(480)	245(473)
Pour Point °C(F)	ASTM D97	-34(-29)	-32(-26)	-30(-22)	-29(-20)	-26(-15)	-18(0)

These characteristics are typical of current production, variations in these characteristics may occur.

### Availability and product codes

Pack size	20L pail	205L drum	1,000L tote / Bulk pump
Hydrol AW 22	HYORZ0044	HYORZ0109	HYORZ0167
Hydrol AW 32	HYORZ0048	HYORZ0113	HYORZ0171
Hydrol AW 46	HYORZ0051	HYORZ0116	HYORZ0174
Hydrol AW 68	HYORZ0054	HYORZ0119	HYORZ0177
Hydrol AW 100	HYORZ0056*	HYORZ0121*	HYORZ0179*
Hydrol AW 150	HYORZ0058*	HYORZ0123*	HYORZ0181*
Availability	To order, contact us toll free at 855.755.6737 or orderdesk@nemco.ca / *Special Order		

### Health, Safety, & Environment

GHS compliant Safety Data Sheets are available at [nemco.ca](http://nemco.ca) under 'Safety Data Sheets'. For SDS in French, please contact [info@nemco.ca](mailto:info@nemco.ca). While this material is not considered hazardous the SDS contains valuable information critical to the safe handling and proper use of the product. Always take used oil to an authorized collection point. Avoid discharge into drains, soil, or water. As with any lubricant, keep out of reach of children and animals.

### Quality

Nemco Resources Ltd works with respected industry suppliers for base oils and additives. Nemco is a member of ILMA and the manufacturing facility in Winnipeg, Manitoba is proud to be certified to ISO9001:2015. For technical or quality questions, please contact us at 855-755-6737.