

PRODUCT DATA SHEET



Athen Marine HYD AW Series

High performance anti-wear hydraulic oils

Product Description

Athen Marine HYD AW Series is a good quality anti-wear hydraulic oil intended for industrial and mobile service applications, subjected to moderate operating conditions and requiring anti-wear lubricants. They are formulated to deliver good performance in a range of hydraulic components used in systems subject to moderate operating conditions.

Features & Benefits

- Good anti-wear performance helps reduce pump wear and prolong pump life
- Corrosion protection helps reduce the effects of moisture on system components
- Filterability to prevent filter blockage even in the presence of water

Applications

- Recommended for marine deck machinery, steering gears, stabilizers, cranes, and other hydraulic systems operating in severe offshore and onboard conditions.
- Systems using gear, vane, radial, and axial piston pumps, and those containing gears and bearings where mild anti-wear characteristics are required.
- Also suitable for land-based equipment requiring high VI fluids where ISO VG 15, 32, 46, 68,100, and 150 grades are specified.

PRODUCT DATA SHEET



Athen Marine HYD AW Series								
Performance Level Meets/Exceeds the specifications								
ISO Viscosity Grades		15	22	32	46	68	100	150
DIN 51524 Part 2 HLP		✓	✓	✓	✓	✓	✓	✓
Bosch Rexroth Racine Model S		✓	✓	✓	✓	✓	✓	✓
AFNOR NFE 48-603 (HM), ISO 11158 HM		✓	✓				✓	✓
Eaton (Vickers) M-2950-S, M-2952-S, I-286-S				✓	✓	✓		
ASTM D6158 HM		✓	✓	✓	✓	✓	✓	✓
China GB 11118.1-2011, L-HM(General)					✓	✓	✓	
Parker (formerly Denison) HF-0, HF-1, HF-2				✓	✓	✓		
Fives CINCINNATI (Former MAG IAS, LLC)				P-68	P-70	P-69		
Typical Properties								
Test Parameters		15	22	32	46	68	100	150
Viscosity @ 40 °C, cSt	D 445	15	22	32	46	68	100	150
Viscosity Index	D 2270	99	99	99	99	99	99	99
Flash Point, °C	D 92	166	184	200	212	220	230	248
Pour Point, °C	D 97	-24	-24	-24	-24	-24	-21	-18
Density @ 15°C, Kg/l	D 1298	0.855	0.860	0.872	0.875	0.884	0.885	0.892
Rust Test	D 665A/B	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Emulsion Test, 54 °C, 30 minutes max	D 1401	Pass	Pass	Pass	Pass	Pass	-	-
Emulsion Test, 82 °C, 30 minutes max	D 1401	-	-	-	-	-	Pass	Pass
Foaming Characteristics, Seq-I, II, III, Stability (after 10 min. settling)	D 892	Nil	Nil	Nil	Nil	Nil	Nil	Nil

"Data provided in this PDS is based on standard tests under laboratory conditions and is indicative only. Minor variations that do not affect product performance are expected in normal manufacturing. This product should not be used for any purpose other than those expressly set out in this PDS"