



Gulf Harmony AW

High-Performance Anti-Wear Hydraulic Oil

Product Description

Gulf Harmony AW series is a high-performance anti-wear hydraulic oil developed for high-pressure hydraulic systems operating under moderate to severe conditions in mobile and industrial service. These oils are formulated with high-quality base oils and carefully selected performance additives to provide excellent protection against oxidation degradation, rust & corrosion and wear. They also possess superior foam control, water separation and rapid air release properties. The viscosity grades (ISO 22 through 150) are formulated with a field-proven thermally stable zinc-based anti-wear additive system. They exceed the performance requirements of global industry standards viz. DIN 51524 Part 2-HLP, AFNOR NFE 48-603 (HM) & ISO 11158 HM and major international OEMs viz. Denison, FIVES CINCINNATI (Former MAG IAS, LLC) & Eaton (Vickers).

Features & Benefits

- Excellent thermo-oxidative stability controls the formation of sludge and varnish and improves oil life
- Exceptional anti-wear property results in longer pump and component life and reduces costs
- Superior demulsibility helps in faster separation of water from oil and resists formation of emulsions
- Special rust and corrosion inhibitors protect multi-metal components even in the presence of moisture
- Rapid air release property minimizes chances of pump cavitation, leading to trouble-free operations
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems

Applications

ISO VG 22 through VG 100

- Hydraulic systems operating under moderate to severe conditions in mobile and industrial applications
- Older hydraulic systems where leakage is a problem and a cost-effective hydraulic oil providing all-round protection is required
- Mobile hydraulic power transmission systems and general machinery lubrication

ISO VG 150

- Recommended for a wide variety of the following industrial applications requiring anti-wear type of oil:
 - Circulating oil systems and Plain and rolling-element bearings
 - Gear sets and General Machinery lubrication

Specifications, Approvals & Typical Properties

ISO Viscosity grades		22	32	46	68	100	150
Meets the following Specifications							
DIN 51524 Part 2-HLP		X	X	X	X	X	X
AFNOR NFE 48-603 (HM), ISO 11158 HM		X	X	X	X	X	X
Eaton (Vickers) M-2950-S, M-2952-S, I-286-S			X	X	X		
FIVES CINCINNATI (Former MAG IAS, LLC)			P-68	P-70	P-69		
Denison HF-0, HF-1, HF-2			X	X	X		
Typical Properties							
Test Parameters	ASTM Method	Typical Values					
Viscosity @ 40 °C, cSt	D 445	22	32	46	68	100	150
Viscosity Index	D 2270	98	100	100	99	97	96
Flash Point, °C	D 92	186	202	210	218	230	246
Pour Point, °C	D 97	-24	-24	-24	-24	-21	-18
Density @ 15°C, Kg/l	D 1298	0.865	0.87	0.874	0.881	0.886	0.89
Rust Test	D 665A/B	Pass	Pass	Pass	Pass	Pass	Pass
Emulsion Test 30 minutes max	@ 54 °C @ 82 °C	D 1401	Pass	Pass	Pass	Pass	-
			-	-	-	-	Pass
Foam Test, foam after 10 minutes of settling for all sequences	D 892	Nil	Nil	Nil	Nil	Nil	Nil
Turbine Oil Stability Test, hrs	D 943	2000+	2500+			2000+	1500+
FZG, fail load stage, minimum	DIN 51354 Part II	-	11	11	11	11	11

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Properties mentioned are typical only and minor variations, which do not affect product performance, are expected to arise in normal manufacturing processes. Please follow equipment manufacturer's recommendations for performance level and viscosity grade. The Safety Data Sheet for this product is available from your nearest Gulf Distributor. Please consult our local representative if any further information is required.

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