



Gulf Harmony AW

High performance anti-wear hydraulic oil

Product Description

Gulf Harmony AW series are high performance anti-wear hydraulic oils 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. They exceed the performance requirements of global industry standards such as DIN 51524 part 2 and of the international OEMs such as Denison, Fives Cincinnati (MAG IAS, LLC) & Eaton (Vickers).

Features & Benefits

- Excellent thermo-oxidative stability controls the formation of sludge & 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 & corrosion inhibitors protect multi-metallurgy components even in presence of moisture
- Rapid air release property minimises chances of pump cavitation leading to trouble free operations
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems

Applications

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

Specifications, Approvals & Typical Properties

ISO Viscosity grades		32	46	68
Specifications				
DIN 51524 Part 2-HLP, Denison HF-0, HF-1, HF-2		X	X	X
Eaton (Vickers) M-2950-S, M-2952-S, I-286-S		X	X	X
Fives Cincinnati (MAG IAS, LLC)		P-68	P-70	P-69
Typical Properties				
Test Parameters	ASTM Method	Typical Values		
Viscosity @ 40 °C, cSt	D 445	32.5	45.9	68.2
Viscosity Index	D 2270	101	106	104
Flash Point, °C	D 92	218	228	240
Pour Point, °C	D 97	-39	-30	-27
Density @ 15°C, Kg/l	D 1298	0.87	0.87	0.87
Rust Test	D 665A/B	Pass	Pass	Pass
Emulsion Test 30 minutes max	@ 54 °C	Pass	Pass	Pass
	@ 82 °C	-	-	-
Foam Test, foam after 10 minutes of settling for all sequences	D 892	Nil	Nil	Nil
Turbine Oil Stability Test, hrs	D 943	2500+		
FZG, fail load stage, minimum	DIN 51354 Part II	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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