



Gulf Harmony AW Plus

Premium quality anti-wear hydraulic oil

Product Description

Gulf Harmony AW Plus series are premium quality anti-wear hydraulic oils specially developed to meet the requirements of the most demanding modern hydraulic systems in industrial and mobile service. These oils are formulated with severely hydro processed Group II base oils and a carefully selected additive system to satisfy the performance requirements of a wide range of hydraulic equipment subjected to high operating pressures & temperatures and to provide extended drain intervals. They possess outstanding thermo-oxidative stability, anti-wear property, rust & corrosion protection, water separation & air-release properties and hydrolytic stability to prolong the equipment and oil life. They are available in ISO 10 through ISO 100 viscosity grades and exceed the performance requirements of global industry standards viz. DIN 51524 Part 2-HLP, AFNOR NFE 48-603 (HM) & ISO 11158 HM and majority of the international OEMs viz. Denison, FIVES CINCINNATI (Former MAG IAS, LLC) & Eaton (Vickers).

Features & Benefits

- Outstanding thermo-oxidative stability reduces deposit formation, improves pump & valve performance and allows extension of oil and filter change intervals.
- Exceptional anti-wear property results in fewer breakdowns, longer pump life and reduced maintenance costs.
- Excellent demulsibility helps in faster separation of water from oil and resists formation of emulsions.
- Special rust & corrosion inhibitors protect multi-metallurgy components against negative effects of moisture presence in the system.
- Rapid air release property minimises chances of pump cavitation and thus prevents component damage, reduces vibration and maintains efficiency especially in modern hydraulic systems where sump sizes are becoming smaller.
- Offers long term hydrolytic stability and yellow metal compatibility in presence of water.
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems.

Applications

- Most demanding hydraulic systems subjected to high pressures and loads.
- Applications requiring extended oil change intervals.
- Hydraulic systems in industrial and mobile service employing gear, vane and piston pumps where anti-wear hydraulic oils are recommended.
- Mobile hydraulic fluid power transmission systems and general machine lubrication.

Specifications, Approvals & Typical Properties

Refer next page

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.

The information contained herein is believed to be correct at the time of publication and may be subject to modification from time to time. It is the user's responsibility to verify that this data sheet is current prior to using the product. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of products. Gulf Oil International reserves the right to modify and change its products and specifications without prior notice.

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ISO Viscosity grades		15	22	32	46	68	100
Meet 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	
Bosch Rexroth 07 075 for vane, piston & gear pumps, Sauer Danfoss 520L0463, BR 90220				x	x	x	
FIVES CINCINNATI (Former MAG IAS, LLC)				P-68	P-70	P-69	
Has the following Approvals							
Denison HF-0, HF-1, HF-2				x	x	x	
Typical Properties							
Test Parameters	ASTM Method	Typical Values					
Viscosity @ 40 °C, cSt	D 445	15	22	32	46	68	100
Viscosity Index	D 2270	109	108	109	109	109	99
Flash Point, °C	D 92	168	192	222	232	238	238
Pour Point, °C	D 97	-27	-27	-24	-24	-24	-21
Density @ 15 °C, Kg/l	D 1298	0.843	0.848	0.863	0.867	0.870	0.861
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	3000+	4500+	5000+			4000+
FZG, fail load stage, minimum	DIN 51354 Part II	-	-	11	11	12	12

June 2024

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