

Gulf Harmony AW Plus Super Clean

Premium quality super clean anti-wear hydraulic

oil

Product Description

Gulf Harmony AW Plus Super Clean 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 requiring super clean oils. These oils are formulated with severely hydroprocessed 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. 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 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, Cincinnati Lamb & Eaton.

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
- Superior cleanliness of this oil ensures smooth & trouble-free operation of precision control hydraulic systems employing close clearance servo valves
- 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 & most sealing materials used in hydraulic systems

Applications

- Most demanding hydraulic systems subjected to high pressures and loads requiring super clean oils
- 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			10	15	22	32	46	68	100
Meets the following s	Specifications		10	15	22	52	40	00	100
DIN 51524 Part 2-HLP			Х	Х	X	Х	Х	X	Х
AFNOR NFE 48-603 (HM), ISO 11158 HM			X	X	X	X	X	X	X
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Denison HF-0, HF-1, HF-2						Х	Х	Х	
FIVES CINCINNATI (Former MAG IAS, LLC)						P-68	P-70		
Eaton (Vickers) M-2950-S, M-2952-S, I-286-S						Х	Х	Х	
Bosch Rexroth 07 075 for vane, piston & gear pumps, Sauer Danfoss 520L0463, BR 90220						х	х	х	
Typical Properties									
Test Parameters		ASTM Method	Typical Values						
Viscosity @ 40 °C, cSt		D 445	10.2	15.3	22.2	31	46.3	68.1	98.7
Viscosity Index		D 2270	109	109	108	105	104	100	99
Flash Point, °C		D 92	142	168	192	206	218	226	238
Pour Point, °C		D 97	-33	-27	-27	-24	-24	-24	-15
Density @ 15°C, Kg/I		D 1298	0.837	0.843	0.848	0.852	0.855	0.858	0.861
Rust Test		D 665A/B	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Emulsion Test	@ 54 oC	D 1401	Pass	Pass	Pass	Pass	Pass	Pass	-
30 minutes max	@ 82 oC		-	-	-	-	-	-	Pass
Foam Test, foam after 10 minutes of settling for all sequences		D 892	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Turbine Oil Stability Test, hrs		D 943	300)0+	4500+ 500		5000+		4000+
FZG, fail load stage, minimum		DIN 51354 Part II	-	-	-	11	11	12	12
Cleanliness level (at filling stage)		NAS 1638	6	6	6	6	6	6	6
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