



Gulf Harmony AW Premium

Future-Next Anti-Wear Hydraulic Oil

Product Description

Gulf Harmony AW Premium series is advanced future-next generation anti-wear hydraulic oils specially developed to meet the stringent requirements of the most demanding modern hydraulic systems in industrial and mobile equipment operations. These oils are formulated with severely hydro-processed very high quality base oils with specialized additive technology that provide outstanding wear protection, performance, system efficiency and excellent performance in latest **Bosch Rexroth Fluid pump test RDE 90345** where oil is **stressed 13 times more than legacy pump test**.

Gulf Harmony AW Premium oil provides outstanding thermo-oxidative stability, resists degradation in high temperature, pressure and mechanical stress thereby provide extended oil life, reduced maintenance and downtime costs of machines & systems and improve operating reliability in all modern severely operated hydraulic systems. **It is a very high quality hydraulic oil that meets all the requirements of Bosch Rexroth RDE 90235 and it is included in Bosch Rexroth Fluid rating list 90245.**



Features & Benefits

- Outstanding protection by resisting degradation at high temperature, pressure and mechanical stress and provides extended oil life, system efficiency and reduced maintenance cost
- Outstanding thermo-oxidative stability reduces deposit formation, improves pump & valve performance and allows extended oil drain and filter change intervals
- Excellent load bearing capacity protects equipment against damage and maximize equipment life and reduced maintenance cost
- Excellent hydrolytic stability provides improved protection and extended life of yellow metal parts of the equipment
- Maintains excellent filterability, sludge and particulate control, thereby provides equipment efficiency.
- Special rust & corrosion inhibitors protect multi-metallurgy components against negative effects of moisture presence in the system
- Rapid air release property minimizes 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
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems

Applications

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

Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

Gulf Oil International

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Specifications, Approvals & Typical Properties

ISO Viscosity grades	32	46	68	
Meet the following Specifications				
Bosch Rexroth Fluid Rating list 90245	X	X	X	
Denison HF-0, HF-1, HF-2	X	X	X	
DIN 51524 Part 2 HLP Type , ISO 11158 (HM)	X	X	X	
Eaton E-FDGN-TB002-E,	X	X	X	
GB 11118.1-2011 (L-HL, L-HM)	X	X	X	
ASTM D6158-05 (HM)	X	X	X	
SAE MS 1004 (HM)	X	X	X	
JCMAS P041 HK Hydraulic specification (Normal Temperature use)	X	X	X	
GM LS-2	X	X	X	
AIST 126, 127	X	X	X	
SEB 181222	X	X	X	
Has the following Approvals				
Bosch Rexroth RDE 90235, Denison HF-0, HF-1, HF-2	X	X	X	
Typical Properties				
Test Parameters	ASTM Method	Typical Values		
Viscosity @ 40 °C, cSt	D 445	33.1	47.2	68.9
Viscosity Index	D 2270	116	110	104
Flash Point, °C	D 92	224	234	244
Pour Point, °C	D 97	-36	-36	-33
Density @ 15°C, Kg/l	D 1298	0.859	0.866	0.877
Rust Test	D 665A/B	Pass	Pass	Pass
Emulsion Test 30 minutes max	@ 54 °C	D 1401	Pass	Pass
Foam Test, foam after 10 minutes of settling for all sequences	D 892	Nil	Nil	Nil
Turbine Oil Stability Test TOST life (minimum), hrs.	D 943	5000+		

March 2019

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