



Gulf Harmony HVI Plus

Supreme quality high viscosity index hydraulic oil for extreme temperature ranges

Product Description

Gulf Harmony HVI Plus series are supreme quality anti-wear hydraulic oils specially developed for applications subjected to wide range of temperature or where small viscosity change with fluctuating temperature is needed. They are formulated with severely hydroprocessed Group II base oils, a highly shear stable polymer and an advanced additive system to meet the stringent requirements of modern hydraulic systems. Their outstanding thermo-oxidative stability and low & high temperature performance allows for extended service life. They provide excellent anti-wear property, rust & corrosion protection, water separation & air-release properties and hydrolytic stability to reduce breakdowns and help improve production capacity. They exceed the performance requirements of global industry standards viz. DIN 51524 Part 3 HVLP, AFNOR NFE 48-603 (HV) & ISO 11158 HV and majority of the international OEMs viz. Hitachi, FIVES CINCINNATI (Former MAG IAS, LLC), Eaton & Denison.

Features & Benefits

- Outstanding thermo-oxidative stability reduces deposit formation, improves pump performance and gives extended oil and filter change intervals
- Extremely high viscosity index assures equipment protection at cold start-up temperatures as well as at high operating temperatures
- 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 & most sealing materials used in hydraulic systems

Application

- Hydraulic and power transmission systems subjected to a wide range of ambient & operating temperatures
- Applications requiring extended oil change intervals
- Critical hydraulic systems such as high accuracy numerically controlled machine tools and those employing close clearance servo valves
- Hydraulic systems of excavators, cranes and hydrostatic drives subjected to most severe outdoor operating conditions
- Hydraulic systems operating under high pressures and requiring high degree of load carrying capability and anti-wear protection

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	150			
Meets the following Specifications										
DIN 51524 Part 3 HVLP	x	x	x	x	x	x	x			
AFNOR NFE 48-603 (HV)			x	x	x	x				
ISO 11158 HV	x	x	x	x	x	x	x			
Denison HF-0, HF-1, HF-2	x	x	x	x	x					
Eaton (Vickers) M-2950-S, M-2952-S, I-286-S	x	x	x	x	x					
Bosch Rexroth 07 075 for vane, piston & gear pumps, Sauer Danfoss 520L0463, BR 90220			x	x	x					
Hitachi				x						
Has the following Approvals										
Denison HF-0, HF-1, HF-2			x	x	x					
FIVES CINCINNATI (Former MAG IAS, LLC)			P-68	P-70	P-69					
Typical Properties										
Test Parameters		ASTM		Test Values						
Viscosity @ 40 °C, cSt		D 445		15	22	32	46	68	100	150
Viscosity Index		D 2270		152	151	152	151	152	152	152
Flash Point, °C		D 92		180	192	234	240	240	242	248
Pour Point, °C		D 97		-42	-42	-39	-36	-36	-33	-30
Density @ 15°C, Kg/l		D 1298		0.855	0.857	0.857	0.867	0.872	0.861	0.862
Rust Test		D 665A/B		Pass	Pass	Pass	Pass	Pass	Pass	Pass
Emulsion Test 30 minutes max	@ 54 °C	D 1401		Pass	Pass	Pass	Pass	Pass	-	-
	@ 82 °C			-	-	-	-	-	Pass	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		5000+					4000+	
FZG, fail load stage, minimum		DIN 51354 Part II		-	-	11	11	11	11	11

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