Gulf Harmony HVI

Premium quality high viscosity index hydraulic oil for extreme temperature ranges

Product Description

Gulf Harmony HVI series are premium quality anti-wear hydraulic oils specially developed for applications subjected to wide range of temperature or where small viscosity change with fluctuating temperature is required. They are formulated with high quality paraffinic base oils, a highly shear stable polymer and an advanced additive system to meet the stringent requirements of modern hydraulic systems. These oils provide excellent protection against oxidation degradation, rust & corrosion and wear. They also possess superior foam control, water separation and rapid air release properties. These oils exceed the performance requirements of global industry standards viz. DIN 51524 Part 3 HVLP, AFNOR NFE 48-603 (HV) & ISO 11158 HV and of international OEMs such as Hitachi, Eaton & Denison.

Features & Benefits

- Exceptional anti-wear property results in longer component life reducing costs
- Extremely high viscosity index assures equipment protection at cold start-up temperatures and at high operating temperatures
- Excellent shear stability minimises viscosity loss over time and exhibits “stay-in-grade” performance under high shear conditions
- Excellent thermo-oxidative stability controls the formation of sludge & varnish and improves oil life
- 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 & most sealing materials commonly used in hydraulic systems

Applications

- Hydraulic and power transmission systems subjected to a wide range of ambient & operating temperatures
- Critical high accuracy industrial hydraulic systems
- Hydraulic systems of excavators, cranes and hydrostatic drives subjected to most severe outdoor operating conditions

Specifications, Approvals & Typical Properties

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ISO Viscosity grades			32	46	68
Meet the following Specifications					
DIN 51524 Part 3 HVLP, AFNOR NFE 48-603, ISO 11158 HV			**x**	**x**	**x**
Denison HF-0, HF-1, HF-2, 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**
Hitachi				**x**	
Typical Properties					
Test Parameters		**ASTM Method**	**Test Values**		
Viscosity @ 40 ºC, cSt		D 445	32.1	46.5	68.5
Viscosity Index		D 2270	151	152	147
Flash Point, ºC		D 92	218	218	226
Pour Point, ºC		D 97	-42	-42	-42
Typical Properties (cont.)					
Test Parameters		**ASTM Method**	**Test Values**		
Density @ 15ºC, Kg/l		D 1298	0.86	0.87	0.86
Rust Test		D 665A/B	Pass	Pass	Pass
Emulsion Test 30 minutes max	@ 54 ºC	D 1401	Pass	Pass	Pass
	@ 82 ºC		-	-	-
Foam Stability in all three sequences, ml		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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