Gulf Harmony HVI

Premium Quality High Viscosity Index Hydraulic Oil for Extreme Temperature Ranges

Product Description

Gulf Harmony HVI series is a premium-quality anti-wear hydraulic oil specially developed for applications operating over a wide temperature range 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 and 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 major international OEMs viz. 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 and varnish and improves oil life
- Superior demulsibility helps in faster separation of water from oil and resists formation of emulsions
- Special rust and corrosion inhibitors protect multi-metallurgy components even in the 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 subject to a wide range of ambient and operating temperatures
- Critical high-precision industrial hydraulic systems
- Hydraulic systems of excavators, cranes and hydrostatic drives operating under most severe outdoor conditions

Specifications, Approvals & Typical Properties

ISO Viscosity grades			15	22	32	46	68
Meets the following Specifications							
DIN 51524 Part 3 HVLP, AFNOR NFE 48-603 (HV), ISO 11158 HV			**X**	**X**	**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**
Typical Properties							
Test Parameters		**ASTM Method**	**Typical Values**				
Viscosity @ 40 ºC, cSt		D 445	15	22	32	46	68
Viscosity Index		D 2270	152	151	150	152	151
Flash Point, ºC		D 92	144	186	218	218	226
Pour Point, ºC		D 97	-42	-42	-39	-36	-36
Density @ 15ºC, Kg/l		D 1298	0.843	0.868	0.868	0.874	0.881
Rust Test		D 665A/B	Pass	Pass	Pass	Pass	Pass
Emulsion Test 30 minutes max	@ 54 ºC	D 1401	Pass	Pass	Pass	Pass	Pass
	@ 82 ºC		-	-	-	-	-
Foam Stability in all three sequences, ml		D 892	Nil	Nil	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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