



Gulf Harmony ZF HVI Premium

Future Next, Zinc free high viscosity index hydraulic oil

Product Description

Gulf Harmony ZF HVI Premium series are supreme quality zinc free 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 zinc free additive system to provide reduced environmental impact in case of an accidental spillage. 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 HVL, 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 & filter change intervals.
- Extremely high viscosity index assures equipment protection at cold start-up temperatures as well as at high operating temperatures
- Excellent shear stability minimises viscosity loss over time and exhibits “stay-in-grade” performance under high shear conditions
- 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

- Hydraulic and power transmission systems subjected to a wide range of ambient & operating temperatures even in environmentally sensitive applications.
- 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.
- Hydraulic systems of stationary equipment and mobile equipment from Industries like steel, cement, textile, construction, mining, wind, Plastic Injection Molding machines, Heavy duty presses, General Engineering etc.

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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Specifications, Approvals & Typical Properties

ISO Viscosity grades		32	46	68
Meets the following Specifications				
DIN 51524 Part 3 HVLP		X	X	X
AFNOR NFE 48-603 (HV)		X	X	X
ISO 11158 HV		X	X	X
Denison HF-0, HF-1, HF-2		X	X	X
FIVES CINCINNATI (Former MAG IAS, LLC)		P-68	P-70	P-69
Eaton (Vickers) M-2950-S		X	X	X
Eaton (Vickers) I-286-S		X	X	X
Has the following Approval				
Bosch Rexroth Fluid Rating List RDE 90245		X	X	X
Typical Properties				
Test Parameters	ASTM Method	Typical Values		
Viscosity @ 40 °C, cSt	D 445	33.00	46.91	68.04
Viscosity Index	D 2270	160	162	162
Flash Point, °C	D 92	228	230	232
Pour Point, °C	D 97	-42	-39	-39
Density @ 15°C, Kg/l	D 1298	0.8580	0.8659	0.8680
Rust Test	D 665A/B	Pass	Pass	Pass
Emulsion Test @ 54°C 30 minutes max	D 1401	Pass	Pass	Pass
Foam Test, foam after 10 minutes of settling for all sequences	D 892	Nil	Nil	Nil
Turbine Oil Stability Test, hrs	D 943	8000+	8000+	8000+
FZG, fail load stage, minimum	DIN 51354 Part II	12	12	12

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