



Gulf Harmony HVI Premium

Very High Viscosity Index Anti-wear Hydraulic Oil

Product Description

Gulf Harmony HVI Premium are supreme quality anti-wear hydraulic oils specially developed for applications subjected to wide range of temperature or where minimal viscosity change with fluctuating temperature is needed, available in ISO VG 32,46 & 68. Its outstanding thermo-oxidative stability and low & high temperature performance allows for extended service life. They provide excellent anti-wear protection, rust & corrosion protection, water separation & air-release properties and hydrolytic stability for reliable performance and thus help improve productivity.

It exceeds 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 helps reduce deposit formation to provide improved pump performance and extended oil/ filter change interval.
- 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.
- Reliable/ Dependable performance in presence of moisture present in the system:
 - Excellent demulsibility helps in faster separation of water from oil
 - Special rust & corrosion inhibitors protect multi-metallurgy components against negative effects of moisture
 - Offers long term hydrolytic stability and filterability
- Rapid air release property minimises chances of pump cavitation and thus prevents component damage.
- Compatible with multi-metals & most sealing materials used in hydraulic system.

Applications

- Hydraulic systems subjected to a very 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, tunnel boring machines 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		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
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		X	X	X
Typical Properties				
Test Parameters	ASTM	Typical Value		
Viscosity @ 40 °C, cSt	D 445	32.6	46.0	68.2
Viscosity Index	D 2270	165	165	165
Flash Point, °C	D 92	218	226	240
Pour Point, °C	D 97	-38	-36	-36
Density @ 15°C, Kg/l	D 1298	0.844	0.858	0.872
Rust Test	D 665B	Pass	Pass	Pass
Emulsion Test (O/W/E @ 54 oC ml) 30 minutes max	D 1401	Pass 40-40-0 (6 minutes)	Pass 40-40-0 (7 minutes)	Pass 40-40-0 (10 minutes)
Foam Test, foam after 10 minutes of settling for all sequences	D 892	0/0 10/0 0/0	Nil	Nil
Turbine Oil Stability Test, hrs	D 943	5000+	5000+	5000+
FZG, fail load stage, minimum	DIN 51354 Part II	11	11	11

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