



Gulf Harmony XVI

Extra High Viscosity Index Hydraulic oil for Extreme Climatic Conditions

Product Description

Gulf Harmony XVI series are anti-wear hydraulic oils with extra high viscosity index of 200 specially developed for forestry machinery and equipment operating in extreme climatic conditions like Arctic climate area. These are formulated with synthetic base oils, highly shear stable polymer and an advanced additive system to meet the stringent requirements of modern hydraulic systems using high pressure high output pumps. They exceed the performance requirements of global industry standards viz. DIN 51524 Part 3 HVLP, SS 155434, AFNOR NFE 48-603 (HV) & ISO 11158 HV and majority of the international OEMs.

Features & Benefits

- Extremely high viscosity index assures equipment protection at cold start-up temperatures and protects system components at high operating temperatures
- Outstanding thermo-oxidative stability reduces deposit formation, improves pump & valve performance and allows extension of oil and filter change intervals
- Exceptional anti-wear property results in longer pump life and reduced maintenance costs
- Excellent shear stability minimises viscosity loss over time 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 corrosion
- Very good filterability properties under wet and dry conditions
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems

Applications

- Hydraulic and power transmission systems of forestry machinery and equipment operating in extreme climatic conditions like Arctic climate area.
- Critical hydraulic systems such as high accuracy numerically controlled machine tools and those employing close clearance servo valves
- Other hydraulic systems for improved performance

Specifications, Approvals & Typical Properties

| ISO Viscosity grades | | 32 | 46 |
|--|--------------------|-----------------------|-------------------|
| Meets the following Specifications | | | |
| DIN 51524 Part 3 HVLP, AFNOR NFE 48-603 (HV), ISO 11158 HV, SS 155434, Denison HF-0, HF-1, HF-2 | | X | X |
| Eaton(Vickers) M-2950-S, I-286-S, Eaton M-2952-S, Bosch Rexroth 07 075 for vane, piston & gear pumps, BR 90220 | | X | X |
| FIVES CINCINNATI (Former MAG IAS, LLC) | | P-68 | P-70 |
| Sauer Danfoss 520L0463 | | X | X |
| Typical Properties | | | |
| Test Parameters | ASTM Method | Typical Values | |
| Viscosity, cSt / after soaking for 72 hrs, cSt | D 445 | 3601/ 3687@ - 30°C | 1793/1882@ - 20°C |
| Viscosity @ 40 °C, cSt | D 445 | 33 | 44.7 |
| Viscosity Index | D 2270 | 200 | 202 |
| Flash Point, °C | D 92 | 208 | 202 |
| Pour Point, °C | D 97 | -48 | -48 |
| Density @ 15°C, Kg/l | D 1298 | 0.869 | 0.872 |
| Rust Test | D 665A/B | Pass | Pass |
| Copper Corrosion (3 hrs @ 100°C) | D 130 | 1a | 1a |
| Emulsion Test 30 minutes max@ 54 oC | D 1401 | Pass | Pass |
| Foam after 10 minutes for all sequences | D 892 | Nil | Nil |
| FZG, fail load stage | DIN 51354 Part II | 11 | 11 |

April 2022

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.

This data sheet has been issued by us in English language only. In the event of any discrepancy between the English language version and any other language version, the English language version shall prevail.