



PRODUCT INFORMATION

Hydraulic Oils

Gulf Harmony HVI Oils

Product Description:

Gulf Harmony HVI Oils are premium quality anti-wear hydraulic oils specially developed for applications subjected to a wide range of temperature or where small viscosity change with fluctuating temperature is required. **Gulf Harmony HVI Oils** are formulated with high quality paraffinnic base oils, a highly shear stable polymer and an advanced additive system to meet the stringent requirements of modern hydraulic systems.

Features/Benefits:

Gulf Harmony HVI Oils have exceptional anti-wear properties resulting in longer pump and component life, the high viscosity index assures equipment protection at cold start-up temperatures and protects system components 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 and superior demulsibility helps in faster separation of water from oil and resists formation of emulsions. Rust & corrosion inhibitors protect multi-metallurgy components even in the presence of moisture and the rapid air release property minimises chances of pump cavitation leading to trouble free operations. **Gulf Harmony HVI Oils** are compatible with metals and sealing materials commonly used in hydraulic systems.

Applications:

Gulf Harmony HVI Oils are suited for hydraulic and power transmission systems subjected to a wide range of ambient & operating temperatures, 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 and hydraulic systems operating under high pressures and requiring high degree of load carrying capability and anti-wear protection.

| Gulf Harmony HVI Oils | | |
|-------------------------------------|--|-------------------|
| MEETS THE FOLLOWING SPECIFICATIONS: | | |
| ISO 11158 HV | Denison HF-0, HF-1, HF-2 (For ISO VG 46 and 68 respectively) | |
| DIN 51524/3 HVL P | Cincinnati Lamb, P-70 and P-69 (For ISO VG 46 and 68 respectively) | |
| AFNOR NFE 48-603 HV | Eaton (Vickers) M-2950-S, I-286-S | Poclair & Hitachi |

| TYPICAL PROPERTIES: | | | | | | |
|--------------------------------------|------|------|------|------|------|------|
| Gulf Harmony HVI ISO VG | 15 | 22 | 32 | 46 | 68 | 100 |
| Product Code | 3604 | 3605 | 3606 | 3607 | 3608 | 3609 |
| Density @ 15°C, kg/m ³ | 858 | 865 | 870 | 874 | 881 | 886 |
| Viscosity @ 40°C, mm ² /s | 15 | 22 | 32 | 46 | 68 | 100 |
| Viscosity Index | 150 | 150 | 150 | 144 | 147 | 134 |
| Flash Point, °C | 164 | 186 | 202 | 218 | 226 | 238 |
| Pour Point, °C | -30 | -30 | -30 | -30 | -30 | -24 |