



your local global brand

Gulf Harmony HVI 46

Premium Quality High Viscosity Index Hydraulic Oil

Product Description:

Gulf Harmony HVI 46 is a premium quality anti-wear hydraulic oil specially developed for applications subjected to a wide range of temperatures or where small viscosity change with fluctuating temperatures is required and 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. **Gulf Harmony HVI 46** provides excellent protection against oxidation degradation, rust & corrosion and wear and possesses superior foam control, water separation and rapid air release properties.

Gulf Harmony HVI 46 has exceptional anti-wear properties resulting 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 & varnish and improves oil life and superior demulsibility helps in faster separation of water from oil and resists formation of emulsions. Special rust & corrosion inhibitors protect multi-metallurgy components even in presence of moisture and rapid air release property minimises chances of pump cavitation leading to trouble free operations. **Gulf Harmony HVI 46** is compatible with multi-metals & most sealing materials commonly used in hydraulic systems.

Gulf Harmony HVI 46 is recommended for hydraulic and power transmission systems subjected to a wide range of ambient & operating temperatures, critical high accuracy industrial hydraulic systems and hydraulic systems of excavators, cranes and hydrostatic drives subjected to most severe outdoor operating conditions.

Meets the specifications of:

ISO 11158 HV, DIN 51524/3 HVL, AFNOR NFE 48-603 HV, Sauer Danfoss 520L0463 Eaton (Vickers) M-2950-S /M-2952-S/ I-286-S, Bosch Rexroth 07 075 vane, piston & gear pumps, Hitachi Denison – TP 30560: HF-0/HF-1/HF-2

Approved by:

Cincinnati Machine - P-70

<u>Properties:</u>	<u>Test Methods:</u>	<u>Typical Values:</u>
ISO Viscosity Grade	ISO 3448	46
Density @ 15°C	ASTM D4052	875 kg/m ³
Kinematic Viscosity @ 40°C	ASTM D445	41.4 – 50.6 mm ² /s (cSt)
Kinematic Viscosity @ 100°C	ASTM D445	8.4 mm ² /s (cSt)
Viscosity Index	ASTM D2270	165
Flash Point	ASTM D92	>180°C
Pour Point	ASTM D97	<-39°C
Rust Test	ASTM D665A/B	Pass
Water Separability @ 54°C	ASTM D1401	Pass
Foaming Characteristics: Sequence I, II & III	ASTM D892	Pass
Turbine Oil Stability Test	ASTM D943	>2500 hrs
FZG A/8.3/90: Load Stage Fail	DIN 51354-2	>11

Product Code: 3607	Date Issued: 02/07/2012	Date Superseded: 12/12/2011	Revision nr: 03
--------------------	-------------------------	-----------------------------	-----------------