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Gulf Harmony ZF 32

High Performance Ashless Anti-Wear Hydraulic Oil

Product Description:

Gulf Harmony ZF 32 is a high performance ashless zinc-free anti-wear hydraulic oil developed to provide excellent performance in hydraulic systems operating under moderate to severe conditions and is formulated with an advanced ashless anti-wear technology and select base oils to provide reduced environmental impact in case of an accidental release into the environment.

Gulf Harmony ZF 32 has excellent thermo-oxidative stability that controls the formation of sludge & varnish and improves oil life. Exceptional anti-wear property results in longer pump and component life and reduces costs and superior demulsibility helps in faster separation of water from oil and resists formation of emulsions. The advanced ashless additive technology reduces environmental impact in case of accidental spillage and special rust & corrosion inhibitors protect multi-metallurgy components even in presence of moisture. Rapid air release property minimises chances of pump cavitation leading to trouble free operations and **Gulf Harmony ZF 32** is compatible with multi-metals and sealing materials commonly used in hydraulic systems.

Gulf Harmony ZF 32 is recommended for hydraulic systems operating under moderate to severe conditions in mobile and industrial service even in environmentally sensitive applications. For mobile hydraulic fluid power transmission systems and general machine lubrication and older design hydraulic pumps containing silver or silver-plated parts.

Meets the specifications of:

ISO 11158 HM, DIN 51524/2 HLP, AFNOR NFE 48-603 HM
Eaton (Vickers) M-2950-S/I-286-S, Cincinnati Lamb P-68

Approved by:

Denison HF-0, HF-1, HF-2

<u>Properties:</u>	<u>Test Methods:</u>	<u>Typical Values:</u>
ISO Viscosity Grade	ISO 3448	32
Density @ 15°C	ASTM D4052	871 kg/m ³
Kinematic Viscosity @ 40°C	ASTM D445	28.8-35.2 mm ² /s (cSt)
Viscosity Index	ASTM D2270	>95
Flash Point	ASTM D92	>195°C
Pour Point	ASTM D97	<-18°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	>3000 hrs
FZG A/8.3/90: Load Stage Fail	DIN 51354-2	>11

Product Code: 3556	Date Issued: 02/07/2012	Date Superseded: 12/12/2011	Revision nr: 03
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