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# Gulf Harmony AW 32

*High Performance Anti-Wear Hydraulic Oil*

## Product Description:

**Gulf Harmony AW 32** is a high performance anti-wear hydraulic oil developed for high pressure hydraulic systems operating under moderate to severe conditions in mobile and industrial service and is formulated with high quality base oils and carefully selected performance additives to provide excellent protection against oxidation degradation, rust & corrosion and wear and possesses superior foam control, water separation and rapid air release properties. **Gulf Harmony AW 32** is formulated with field proven thermally stable zinc based anti-wear additives.

**Gulf Harmony AW 32** has excellent thermo-oxidative stability controlling the formation of sludge & varnish and improves oil life. Exceptional anti-wear property results in longer pump and component life and reduces costs. Superior demulsibility helps in faster separation of water from oil and resists formation of emulsions 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 are compatible with multi-metals and sealing materials commonly used in hydraulic systems.

**Gulf Harmony AW 32** can be used in hydraulic systems operating under moderate to severe conditions in mobile and industrial service and in older hydraulic systems where leakage is a problem and a cost-effective hydraulic oil providing all-round protection is required, mobile hydraulic fluid power transmission systems and general machine lubrication.

### Meets the specifications of:

ISO 11158 HM, DIN 51524/2 HLP, AFNOR NFE 48-603 HM, Sauer Danfoss 520L0463  
Eaton (Vickers) M-2950-S/M-2952-S/I-286-S, Bosch Rexroth 07 075 vane, piston & gear pumps

### Approved by:

Cincinnati Machine P-68, Parker Denison Hydraulics France HF0, HF1, HF2

<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 <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D445	28.8-35.2 mm <sup>2</sup> /s (cSt)
Viscosity Index	ASTM D2270	100
Flash Point	ASTM D92	>205°C
Pour Point	ASTM D97	<-36°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: 3506

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Date Superseded: 02/07/2012

Revision nr: 04