



# Gulf Harmony CME

## High viscosity index hydraulic oil for Construction and Mining Equipment

### Product Description

**Gulf Harmony CME** series are supreme quality anti-wear hydraulic oils exclusively developed for construction and mining equipment in off highway applications requiring very high viscosity index oils to minimize the changes in viscosity even under wide temperature variation. These oils are formulated with severely hydroprocessed base oils, highly shear stable polymer and high performance additive system to meet the stringent requirements of modern hydraulic systems using high pressure high output pumps. Gulf Harmony CME exceeds the performance requirements of global industry standards like DIN 51524 Part 3 HVLP and majority of the international OEMs viz. Poclain, Hitachi, Eaton, Denison and others.

### Features & Benefits

- Exceptional anti-wear property results in longer pump life and reduced maintenance costs
- Excellent shear stability ensures viscosity control over longer period of operation as demonstrated in the stringent Poclain Shear Stability Test – PH 904089920Q (VG 68)
- Outstanding thermo-oxidative stability reduces deposit formation, improves pump & valve performance and allows extension of oil and filter change intervals
- Very high viscosity index minimises change in viscosity of oil even under wide temperature variation thereby ensuring smooth functioning of hydraulic system
- Excellent demulsibility helps in faster separation of water from oil and resists formation of emulsions
- Compatible with multi-metals & most sealing materials used in hydraulic systems
- Superior cleanliness ensures smooth & trouble-free operation of precision control hydraulic systems

### Applications

- Hydraulic systems of off-highway equipment like excavators, cranes and hydrostatic drives used in applications like construction, mining, agriculture, forestry, etc.
- Hydraulic and power transmission systems subjected to a wide range of ambient & operating temperatures requiring long life super clean oils

### Specifications, Approvals & Typical Properties

ISO Viscosity grades	46	68	100	
<b>Meet the following Specifications</b>				
DIN 51524 Part 3 HVLP, AFNOR NFE 48-603 (HV), ISO 11158 HV	X	X	X	
Denison HF-0, HF-1, HF-2, Eaton (Vickers) M-2950-S, M-2952-S, I-286-S	X	X		
FIVES CINCINNATI (Former MAG IAS, LLC)	P-70	P-69		
Bosch Rexroth 07 075 for vane, piston & gear pumps, Sauer Danfoss 520L0463, BR 90220	X	X		
Poclain	X	X	X	
Hitachi	X			
<b>Typical Properties</b>				
<b>Test Parameters</b>	<b>ASTM</b>	<b>Test Values</b>		
Viscosity @ 40 °C, cSt	D 445	46.2	68.6	100.3
Viscosity Index	D 2270	153	149	144
Flash Point, °C	D 92	232	238	242
Pour Point, °C	D 97	-39	-39	-39
Density @ 15°C, Kg/l	D 1298	0.868	0.871	0.874
Rust Test	D 665A/B	Pass	Pass	Pass
Emulsion Test 30 minutes max	@ 54 oC @ 82 oC	Pass	Pass	-
		-	-	Pass
Foam after 10 minutes of settling for all sequences	D 892	Nil	Nil	Nil
Turbine Oil Stability Test, hrs	D 943	5000+	5000+	4000+
FZG, fail load stage, minimum	DIN 51354 Part II	12	12	12
Cleanliness level (at filling stage)	NAS 1638	8	8	8

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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.

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