



Gulf Harmony

**Premium quality rust & oxidation (R&O) inhibited
multipurpose lubricating oils**

Product Description

Gulf Harmony series are premium quality multipurpose lubricating oils intended for use in hydraulic systems in industrial and mobile service, compressors, turbines, circulating systems and spur, helical, bevel & worm gearboxes where R&O type of oils are required. These oils are blended from high quality base oils and a proven additive system to provide superior oxidation stability, rust & corrosion protection, foam control and moderate wear protection. They also possess good water separation and rapid air release properties. These oils are available in ISO 15, 32 through ISO 320 viscosity grades. They exceed the performance requirements of DIN 51524 Part 1-HL, ISO 11158-HL, AFNOR NFE 48-603 (HL) and FIVES CINCINNATI (Former MAG IAS, LLC) P-38, P-54, P-55 & P-57.

Features & Benefits

- Superior thermo-oxidative stability minimises sludge & varnish formation and resists oil degradation leading to longer service life.
- Excellent demulsibility helps in faster separation of water from oil
- Special rust & corrosion inhibitors protect critical components even in severe operating conditions
- Effective foam control and rapid air release properties ensure trouble-free operations

Applications

- Hydraulic systems in industrial and mobile service requiring R&O type of oils
- Also recommended for a wide variety of following industrial applications requiring R&O type of oils:
 - Plain and rolling element bearings
 - Circulating oil systems
 - Air compressors
 - Gear sets not requiring EP properties
 - General Machine lubrication

Specifications, Approvals & Typical Properties

ISO Viscosity grades	32	46	68	100	150	220	320	
Specifications								
DIN 51524 Part 1-HL	X	X	X	X	X			
ISO 11158-HL	X	X	X	X	X			
AFNOR NFE 48-603 (HL)	X	X	X	X	X			
FIVES CINCINNATI (Former MAG IAS, LLC)	P-38	P-55	P-54		P-57			
Typical Properties								
Test Parameters	ASTM Method	Typical Values						
Viscosity @ 40 °C, cSt	D 445	31.2	45.9	68.3	98.3	148.9	221	321.1
Viscosity Index	D 2270	100	100	99	97	96	96	95
Flash Point, °C	D 92	202	210	218	230	246	256	266
Pour Point, °C	D 97	-21	-18	-15	-12	-9	-6	-6
Density @ 15°C, Kg/l	D 1298	0.87	0.874	0.881	0.886	0.89	0.894	0.898
Rust Test	D 665A/B	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Emulsion Test 30 minutes max	@ 54 oC	Pass	Pass	Pass	-	-	-	
	@ 82 oC	-	-	-	Pass	Pass	Pass	
Foam Test, foam after 10 minutes of settling for all sequences	D 892	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Turbine Oil Stability Test, hrs	D 943	1500+		1000+				

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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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