

Gulf Harmony AW

High performance anti-wear hydraulic oil

Product Description

Gulf Harmony AW series are high performance anti-wear hydraulic oils developed for high pressure hydraulic systems operating under moderate to severe conditions in mobile and industrial service. These oils are formulated with high quality base oils and carefully selected performance additives to provide excellent protection against oxidation degradation, rust & corrosion and wear. They also possess superior foam control, water separation and rapid air release properties. The lower viscosity grades (ISO 15 through 100) are formulated with field proven thermally stable zinc based anti-wear additive system and the higher viscosity grades (ISO 150 through 460) are based on ashless anti-wear additive system They exceed the performance requirements of global industry standards viz. DIN 51524 Part 2-HLP, AFNOR NFE 48-603 (HM) & ISO 11158 HM and majority of the international OEMs viz. Denison, FIVES CINCINNATI (Former MAG IAS, LLC) & Eaton (Vickers).

Features & Benefits

- Excellent thermo-oxidative stability controls 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
- 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
- · Compatible with multi-metals and sealing materials commonly used in hydraulic systems

Applications

ISO VG 15 through VG 100

- · Hydraulic systems operating under moderate to severe conditions in mobile and industrial service
- 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

ISO VG 150 through VG 460

- Recommended for a wide variety of following industrial applications requiring anti-wear type of oils:
 - Circulating oil systems
 - Plain and rolling element bearings
 - Gear sets
 - General Machine lubrication

Specifications, Approvals & Typical Properties

Refer next page

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.



ISO Viscosity grades

DIN 51524 Part 2-HLP

Has the following Approvals

AFNOR NFE 48-603 (HM), ISO 11158 HM

Eaton (Vickers) M-2950-S, M-2952-S, I-286-S

FIVES CINCINNATI (Former MAG IAS, LLC)

Specifications

		1	1	1	1		
				X	X	X	
st Parameters ASTM Method		Typical Values					
D 445		15.1	22.2	31.2	45.9	68.3	98.3
D 2270)	97	98	100	100	99	97
D 92		164	186	202	210	218	230
D 97		-24	-24			-24	-12
					_		
D 665A	VB			_		+	Pass
D 1401	D 1401		Pass	Pass	Pass	Pass	-
D 1401		-	-	-	-	-	Pass
D 892		Nil	Nil	Nil	Nil	Nil	Nil
D 943	D 943		00+		2500+		2000+
DIN 51	354 Part II	-	-	11	11	11	11
			1	50	220	320	460
				Х			
				Х			
				Х			
	ASTM Method			Typical Values			5
	D 445		14	8.9	221	321.1	467
	D 2270			96	96	95	95
	D 92		2	46	256	266	280
	D 97				-6	-6	-3
	D 1298		0	.89	0.894	0.898	0.902
	D 665A/B		P	ass	Pass	Pass	Pass
	D 1401		P	ass	Pass	Pass	Pass
s	D 892		1	Nil	Nil	Nil	Nil
	D 943		15	00+		1000+	
	D 943 DIN 51354	Part II		00+ 11	11	1000+ 11	11
	D 445 D 2270 D 92 D 97 D 1298 D 6654 D 1401 S D 892 D 943 DIN 51	D 445 D 2270 D 92 D 97 D 1298 D 665A/B D 1401 S D 892 D 943 DIN 51354 Part II ASTM Met D 445 D 2270 D 92 D 97 D 1298 D 665A/B D 1401	D 445	D 445	D 445	ASTM Method	ASTM Method

15

Χ

X

22

Χ

X

32

X

X

46

Χ

X

P-68 P-70 P-69

68

X

X

100

X

X

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