



## Gulf Fidelity LL

### Long Life Air Compressor Lubricant

#### Product Description

**Gulf Fidelity LL** series are long life ashless air compressor lubricants developed for use in rotary compressors of screw or vane design, reciprocating compressors and centrifugal compressors to provide long and reliable service in extreme temperatures and severe operating conditions. Gulf Fidelity LL is manufactured from specially selected base fluids and advanced additive technology to provide excellent thermo-oxidative stability, resistance to sludge & varnish formation and wear protection similar to synthetic products meeting SAE M1003-2 specification.

#### Features & Benefits

- Outstanding thermo-oxidative stability and excellent anti-wear protection leads to longer oil and equipment life
- Low sludge, varnish and carbon forming tendency help in reducing maintenance cost
- High viscosity index coupled with excellent low temperature fluidity makes these oils suitable for use in wide operating temperature range
- Zinc-free formulation ensures excellent filterability by minimizing oil filter blockage in wet condition
- Excellent low volatility characteristics give low oil consumption and reduced top-up rates
- Improved surface properties results in very good anti-foaming and air release properties and superior demulsibility
- Offers excellent protection against rust and corrosion
- Compatible with mineral lubricants and also with seals and paints normally used with mineral oils.

#### Applications

- Single or multiple stage rotary screw or vane, centrifugal compressors and reciprocating compressors of various OEMs including Hydrovane, Sullair, Atlas Copco, Compare and others.
- The formulation has undergone a successful field trial in Sullair Model 12-50H Screw Compressor (50 HP, 1780 rpm, air discharge temperature 93°C) for 8502 hrs and in Hydrovane HV04-HV07 air compressors (air discharge temperature 120°C) for 2450 hrs.
- Compressors used in mobile and stationary applications.

#### Specifications, Approvals & Typical Properties

Meets the following Specification		32	46	68	100	150	
DIN 51506 VDL		x	x	x	x	x	
ISO 6743-3 ISO-L-DAB and ISO-L-DAJ		x	x	x	x	x	
Typical Properties							
Test Parameters		ASTM Method	Typical Values				
Viscosity @ 40 °C, cSt		D 445	32.5	46.1	68.3	100.9	144
Viscosity Index		D 2270	128	130	136	138	135
Flash Point, °C		D 92	220	222	222	234	220
Pour Point, °C		D 97	-36	-36	-36	-36	-36
Density @ 15°C, Kg/l		D 1298	0.848	0.852	0.854	0.858	0.864
Air Release, @ 50°C minutes		D 3427	2	5	8	12	12
RBOT, minutes		IP 229	1718	1744	2066	2008	2065
Rust Test		D 665 A/B	Pass	Pass	Pass	Pass	Pass
Emulsion Test 30 minutes max	@ 54 °C	D 1401	Pass	Pass	Pass	-	-
	@ 82 °C		-	-	-	Pass	Pass
Foam (aft 10 mins of settling - all seq)		D 892	Nil	Nil	Nil	Nil	Nil
FZG, fail load stage		DIN 51354 Part II	>12	>11	>12	>12	>12

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Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

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