BIOPAG CL 46

polyalkylene glycol (PAG)and polyol ester synthetic compressor oil

Technical Data Sheet

Product Description

Anglomoil BIOPAG CL 46 (SAE 10W20) Is a Rapidly Biodegradable air compressor lubricant and has been specially designed for use in rotary screw air compressors. BIOPAG CL air compressor lubricant is a fully formulated, full synthetic blend of Polyalkylene Glycol (PAG)and Polyol Ester and thus, takes advantage of the excellent performance attributes of both classes of compound. In addition, due to the inherently high viscosity index of BIOPAG CL, no additional VI improvers are required in the formulation and so the product remains stable to shear forces and does not suffer any irreversible effects .

Product Features & Benefits

- Biodegradability of 96%
- High oxidative stability
- Resistant to sludge and varnish formation
- High viscosity index (maintains viscosity at high temperature)
- Excellent elastomeric seal compatibility
- Hydrolytically stable
- High Flash Point
- Reduced carry over
- Extended drain intervals (Up to 8000 hrs)

Additional Information

Seal Compatibility

Anglomoil BIO PAG CL 46 has good compatability with natural rubber and synthetic seal technology, testing with Viton at a range of temperatures over 31 days resulted in the following weight losses.

Temperature	% weight loss
0 °C	0%
25 °C	0.3%
70 °C	2.29%

Compatibility

Anglomoil BIO PAG CL 46 does not readily mix with conventional synthetic compressor oils, for more specific information contact Anglomoil. It is recommended that compressors running any Polyalkylene (PAG) Polyol Ester fluid, display a lube sticker stating fluid type at the fill point.

Warning: Do Not Use PAG/Ester fluids in compressors that produce breathing air.

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Competition Comparison Chart

Properties	BIOPAG CL 46	GD Aeon PG	Sullube	Kluber Summit Super Coolant	IR Ultra Coolant
ISO @40°C	47.02 (46)	48.25	39.3	54.9	48.00
ISO @100°C	8.93	9.38	7.3	9.32	9
SAE	10W20	10W20	5W20	10W20	10W20
VI	173	182	153	153	172
Flash Point	260+	218	262	254	271
Biodegrad-ability	96%	NA	82%	98.61%	90.61%
Base	PAG/Ester	PAG/Ester	PAG/Ester	PAG/Ester	PAG/Ester

Typical Properties

Properties	Unit	BIO PAG CL 46	Method
Viscosity@ 40 °C	cSt	47.07	ASTM D 445
Viscosity@ 100 °C	cSt	8.93	ASTM D 445
Viscosity Index		173	ASTM D 2270
Density	Gcm-1	0.989	ASTM D 1298
Flash Point (COC)	°C	>260	ASTM D 92
Foam tendency		Nil	ASTM D 892
Barium Content		Nil	ASTM D 4951
Nitrogen Content		Nil	ASTM D 4950
Max. Operation Temp	°C	200	-
Pour Point	°C	<-50	ASTM D 97
4-Ball wear scar (40kg, h)	mm	0.38	ASTM D 4127
Falex seizure load	Kg (lb)	900 (2000)	ASTM D 3233
Steam turbine Corrosion Procedure A		PASS	IP 135
Biodegradability	%	96	CEL L-33-A-93

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