

CONSULTING
SALES
TECHNICAL SUPPORT



It's about time.....

The Next Generation of Rotary Screw Compressor Lubricants

panacea™

by STRIDENT

pan·a·ce·a \ pan'ə sē' ə\ : a remedy for all ills or difficulties

**THE ANSWER TO ALL YOUR COMPRESSOR
LUBRICANT NEEDS**

Panacea™ is the PAG/POE (Polyalkylene Glycol/ Polyol Ester) priced for distribution, eliminating the expensive OEM overhead that PAG/POE's have been associated with **until today.**



William Murray Hammond
Carol Ming Webb
Founders/Owners



About us:

STRIDENT, LLC began with recognition of the need for an OEM quality compressor lubricant - without the OEM expense! Now these Polyglycol/POE fluids are available at a reasonable cost. Strident fluids are not PAO or diester imitations, but are truly OEM quality fluids.

STRIDENT, LLC

The **Panacea™** formulations were developed by a lubricant chemist with over 20 years experience with Polyglycol rotary compressor fluids.

Utilizing 2009 additive technology and premium base stocks, the quality of **Panacea™** has far surpassed the performance of the OEM's products that still rely on 1980's technology.

For example, in lab simulations of fluid life, **Panacea 12™** achieved 852 minutes in the *Rotary Pressure Vessel Oxidation Test (RPVOT)*. This test is the most strenuous for a synthetic lubricant. In this test the lubricant is mixed with water and heated to 302°F under high pressure in pure oxygen. It is hard to imagine a more grueling test! This is an excellent simulation of hydrolytic stability and resistance to oxidation of the product. This is also the best simulation of actual field conditions to predict product service life.

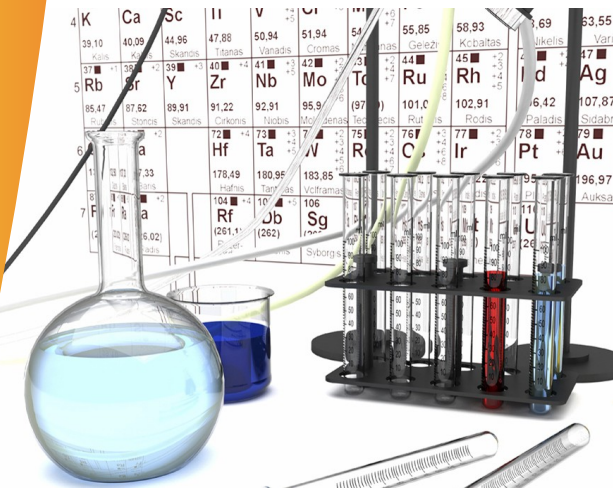
This was a great improvement in RPVOT results, even over the OEM product! The dream was a reality at that moment, as the top OEM fluid performed for only 690 minutes.

Panacea™ has proven:

- To be reliably varnish-free;
- To have excellent corrosion protection;
- To have low carryover;
- To have a high flash point;
- To have superior cooling capabilities; and
- To be a diester free synthetic lubricant at a competitive price.

Panacea™ PAG/POE is a reality and is available.

STRIDENT, LLC offers **Panacea 8™** (8,000 hours at 200°F) and **Panacea 12™** (12,000 hours at 200°F).



The "Green" Lubricant that's Blue

Panacea™ is more Ecologically and Environmentally Friendly than other Lubricants by:

- Eliminating Barium, a heavy metal
- Improving corrosion protection for ferrous metals
- Using biodegradable base stocks
- Reducing the number of fluid changes

TECHNICAL

Advantages of Panacea 8™ and Panacea 12™

- Varnish Free Operation
- Longer Life than OEM fluids
- Improved Corrosion Protection
- High Flash Point
- Low Carryover
- Diester Free
- Very Competitive To OEM Pricing
- Elastomer Friendly
- Biodegradable Base Stocks
- Barium Free

Panacea™ — It's not just another synthetic!

- Not a diester
- Not a PAO
- No hydrocarbons
- Genuine PAG/POE blend — equal or better quality than OEM fluids

Avoid Varnish — The enemy of rotary compressors

PAO fluids may also have a long life, but still form varnish!

What does varnish do to a compressor?

- Increases horsepower and electrical use —“drag” in the air end
- Raises operating temperature
- Shortens bearing life
- Shortens separator life — possible collapse
- Plugs oil coolers, tubing and thermal valves

Panacea™ won't varnish — ever!

Panacea™ will slowly dissolve varnish from previous fluids.

Panacea™ is compatible with your compressor

- Compatible with elastomers normally found in compressors
- Diester free — eliminates leaks at hoses, flex couplings, shaft seals, or other elastomer sealed areas
- Avoids environmental and spill issues
- Keeps the fluid in the compressor, not out on the slab

The Lubricant Solution for your compressor needs

Q. How do you determine the life of Panacea™?

A. Panacea's performance, like the other PAG/POE's, will be determined by the Total Acid Number (TAN). Panacea's change point is 1.0. To many in the industry, this is seen as a conservative number. Changing Panacea™ at a TAN of 1.0 keeps the residual acids generated to an easily neutralized amount between changes. This eliminates the need for a neutralizing flush and prevents the poisoning of a fresh charge.

Q. When should Panacea 8™ be used and when should Panacea 12™ be used?

A. Panacea 8™ was formulated to ensure a clean running, reliable lubricant for customers who do an annual comprehensive maintenance by changing lubricant at the same time as air/oil separators.

Panacea 12™ was formulated for use when maintenance records determine lubricant change by hours logged. It is a more cost effective lubricant simply because it does not cost much more to manufacture a 12,000 hour lubricant than an 8,000 hour one. Panacea 12™ is ideal for hostile environments where discharge temperatures are excessive, either by design such as high pressure multi-stage screws found in the petrochemical industry or in extreme ambient conditions for air cooled applications. 12,000 hours will not be achieved under those conditions, but 8,000 hours is a realistic runtime. All other PAG/POE's rated at 8,000 hours would fail at 4,000 to 6,000 hours.

Cost Savings — Over the course of six years in a good environment, Panacea 12™ would be changed 4 times. An 8,000 hour OEM fluid would be changed 6 times. Even if the price per gallon were the same, this is a 33% savings!

Longer Life than OEM fluids — Panacea 12™ offers 1.5 times the life of OEM fluids while Panacea™ 8 is designed to duplicate the life of the PAG/POE OEM fluids. Both are designed to be equivalent to or better than the OEM PAG/POE fluids in all areas of performance.

Varnish Free Operation — Panacea™ is varnish free and will actually remove accumulations of existing varnish from compressors. Avoid overheating from cooler plugging, increased drag and amp draw in the air end, and shortened separator life by using Panacea™.


Improved Corrosion Protection — A significant cause of air end failures is corrosion of bearings, especially for machines that see intermittent operation. Both Panacea™ 8 and Panacea™12 offer superior corrosion protection for longer air end and separator life.

Safety and Security — With a flash point of over 500°F, Panacea™ 8 and Panacea™ 12 provide added protection against the most dreaded of events - a compressor fire.

Avoid the OEM pricing — More rotary compressors in the U.S. today are equipped with a PAG/POE based OEM fluid than any other fluid. Since Panacea™ comes directly from the manufacturer, high OEM prices are avoided.

Low Carryover — Compressor fluid belongs in the compressor, not downstream. The low volatility of Panacea™ keeps the fluid in the compressor, reducing the expense associated with make-up fluid use.

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