



SHELL CORENA[®] FLUIDS PGE

High quality synthetic fluids designed for rotary screw air compressors

Product Description

Shell Corena[®] Fluid PGE products are high quality synthetic fluids based on polyalkylene glycol and ester technology that are designed for use in rotary screw air (except breathing air) compressors. They are an excellent choice for service fill in situations where polyglycol-ester type lubricants are already in use as their application will avoid potential incompatibility problems.

Product Application

Rotary screw air compressor design severely stresses the lubricant used, which must lubricate moving parts, remove the heat generated and seal against leaks. The high operating temperatures and severe oxidizing conditions encountered sharply limit the service of conventional petroleum based lubricants.

Shell Corena[®] Fluid PGE compressor lubricants are specifically designed to provide extended drain intervals in this severe service. This series of products will meet the lubrication requirements of many positive displacement compressors operating under adverse conditions.

Features

Shell Corena[®] Fluid PGE are high quality, fully formulated synthetic lubricants based on a mixed polyglycol-ester system. They provide outstanding performance in the areas of thermal, hydrolytic and oxidative stability, resistance to sludge and varnish formation and offer excellent heat transfer and anti-wear protection. The low vapor pressure of Shell Corena[®] Fluid PGE products facilitates separation of lubricant from the compressed air, resulting in low make-up rates and minimal complications arising from the presence of entrained lubricants in downstream air. The high viscosity indices and low pour points of Shell Corena[®] Fluid PGE products results in their utility over a wide range of ambient operating conditions.

Benefits

- reduced component wear
- sludge and varnish control
- excellent thermal, oxidation and hydrolytic stability
- low volatilization losses

Note: Corena[®] Fluid PGE products are **NOT** recommended for use in breathing air service.

Approvals and Recommendations

Shell Corena® Fluid PGE lubricants are especially suitable for use in rotary screw air compressors (except breathing air) operating under severe conditions. They are an excellent choice for service fill in situations where polyglycol-ester type lubricants are already in use as their application will avoid potential incompatibility problems.

Maintenance

Shell Corena® Fluid PGE lubricants will tolerate admixture of trace amounts of petroleum oils. When converting from a mineral oil product to Shell Corena® Fluid PGE, care must be taken to thoroughly drain the system and to change out filters and separators prior to charging the system with Shell Corena® Fluid PGE. Excessive petroleum contamination will cause lubricant separation and malfunction. Some elastomers and coatings used in equipment in mineral oil service may not be compatible with Shell Corena® Fluid PGE. Where there is any doubt concerning incompatibility, the equipment manufacturer should be consulted. Shell Corena® Fluid PGE is not intended for use for compressors providing breathing air.

Typical Properties of Shell Corena® Fluids PGE			
	Test Method	32	68
Code No.		65520	65521
Appearance		Very Light Pale	Very Light Pale
Gravity, API	D 1298	14.8	15.8
Flash Point, COC, °F	D 92	480	490
Pour Point, °F	D 97	-55	-50
Viscosity			
@ 40°C, cSt	D 445	38.7	56.2
@ 100°C, cSt	D 445	6.83	9.37
@ 100°F, SUS	Calc	199	286
@ 210°F, SUS	Calc	49.1	57.8
Viscosity Index	D 2270	136	149
Carbon Residue, wt%	D 189	0.02	0.05
Copper Strip Corrosion 3 hrs at 250°F (121°C)	D 130	1a	1a
Rotary Bomb Oxidation Test, minutes	D 2272	1300	1300

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.