



SANTEX NATURAL GAS COMPRESSOR OIL

The lubricant problems generally encountered with the compression of natural gas are related to the reaction of the gas stream with the lubricant. These include:

- Solubility of gas in the lubricant causes reduced lubricant viscosity resulting in cylinder scoring and high wear rates. Compensating for this with a higher viscosity lubricant can cause handling problems at lower temperatures.
- Absorption of lubricant into the gas stream results in high lubricant usage rates and a depletion of protective lubricant film in the cylinder.
- Condensed hydrocarbon liquids in the cylinder area can "wash" the lubricant from the cylinder walls causing severe mechanical damage.
- The carryover from increased lubricant feed rates or use of heavily compounded oils to compensate for hydrocarbon dilution and wash-out can damage the well formation.
- Gases such as CO₂ and H₂S may be corrosive to compressor components. NGL protects against the corrosive effect of these gases to compressor components while maintaining lubricating properties.

Santex Natural Gas Compressor Oil (SNGL), a polyalkylene glycol lubricant was formulated to combat these problems associated with high pressure reciprocating compressors pumping natural gas, carbon dioxide, or process gases.

SNGL Series lubricants are extremely resistant to hydrocarbon dilution and absorption of the gas stream components. Any lubricant carryover will not impair the well formation as it is compatible with well-bore treatment fluids and soluble in water. The result is a lubricant maintaining the proper viscosity for wear protection, resisting wash-out and carryover, and posing no threat of damage to the well formation. The extremely high viscosity index of the **SNGL Series** lubricants allows protection over a broad temperature range. The low pour point provides all season ease of handling even in very cold climates.

Santex SNGL Series can offer these same advantages when compressing a number of other difficult gases including hydrogen, helium and nitrogen. Please contact your Santex representative with your specific gas application.

Physical Properties			
CHARACTERISTICS	PERFORMANCE		
PRODUCT	SNGL-444	SNGL-777	SNGL-888
ISO Viscosity	-	150	220
Specific Gravity, 60°F			
Viscosity @ 40°C, cSt	79.0	150	209
Viscosity @100°C, cSt	16.0	28.8	38.5
Viscosity @ 100°F, SUS	397	753	1052
Viscosity @ 210°F, SUS	83.5	140	185
Viscosity Index	218	233	236
Flash Point, °F (°C)	450 (232)	500 (261)	515 (268)
Pour Point, °F (°C)	-55(-48)	-44(-42)	-44(-42)
Density, lbs./gal	8.68	8.75	8.76

For additional product information contact your local distributor representative or email us at Info@santexdirect.com