



PRODUCT BULLETIN



SYNTHETIC COMPRESSOR LUBRICANTS

"A diester base fluid formulated as a "third generation" lubricant to provide superior performance in all types of air compressors, vacuum pumps, turbines and hydraulic systems."

DESCRIPTION:

Diester based lubricants have proven, over the past decade, to be much superior to conventional petroleum oils when applied as a cylinder lubricant in reciprocating air compressors. The great thermal stability of the diester coupled with its innate solvency has resulted in exceptional valve cleanliness and elimination of piston ring sticking. Thus, the trouble-free service life of these type compressors has been extended many times over. More recently, diester fluids have been applied to other compressor types such as centrifugal, rotary screw and rotary vane units with like success in reducing maintenance costs and down time, and lengthening service life.

The diester base fluids employed in the Steelco Synthetic Fluids are the result of years of research and testing and are produced specifically for use as lubricants. They possess the qualities required to perform in the high stress lubrication situations where they are usually employed. These qualities include: excellent thermal stability to resist cracking at high temperatures and provide a high degree of natural resistance to oxidation; superior lubricity, natural oiliness and high film strength; a high degree of natural solvency to keep systems and components clean without the use of ash forming mettalo-organic detergent/dispersant additives; good viscosity index characteristics and exceptionally low pour point providing outstanding performance in cold climates or applications such as refrigeration service. Also, this excellent diester base is fortified with selected additives to further enhance its performance characteristics.

Steelco Synthetic Fluids have been proven first in laboratory tests and subsequently in field service tests to show definite energy requirement reductions in rotating equipment.

Steelco Synthetic Fluids also reduce start-up energy requirements in low temperature service due to their extremely low pour point. The wax-free nature of the diester fluids makes them excellent performers in all low temperature applications and in mist lubrication systems they will not plug reclassifiers at temperatures even below -30°F.

APPLICATIONS:

All types of air compressors including reciprocating, screw, centrifugal, vane, rotary, etc., where the long life of a synthetic lubricant is desirable or where severe conditions dictate the use of a lubricant with performance characteristics superior to those of petroleum mineral oils. Can also be used in turbines, vacuum pumps and hydraulic systems. As some elastomers are affected by diesters, consideration should be given to the type of seals, hoses and other rubber components.

Not recommended for use as a fire-resistant fluid.

USER BENEFITS:

- * EXTENDED LUBRICANT LIFE
- * GREATER PRODUCTIVITY
- * ELIMINATION OF CARBON
- * NON FOAMING
- * KEEPS VALVES CLEAN
- * LESS OIL CONSUMPTION
- * VERY LOW POUR POINT
- * INVENTORY VERSATILITY
- * REDUCED MAINTENANCE
- * DISTINCTIVE COLOR

TYPICAL TEST DATA:

STEELCO CODE NUMBERS	S-921	S-922	S-923	S-924	S-925
SAE Grade	10	20	30	40	50
Vis. SUS at 100°F	150	334	500	700	1500
Vis. C-St. at 100°F	32	72	108	151	324
Vis. SUS at 210°F	44.6	51.4	60.6	72.0	125
Vis. C-St. at 210°F	5.6	7.7	10.4	13.5	26.1
Viscosity Index, min.	145	145	125	125	125
Specific Gravity	0.925	0.950	0.951	0.870	0.900
Flash Point, °F	450	520	435	490	440
Pour Point, °F	-70	-30	-20	-35	-25
Auto Ignition Temp., °F	760	700	765	760	750
Acid Number	0.2	0.2	0.2	0.25	0.25
Color	Green	Green	Green	Green	Green

AUTHORIZED DISTRIBUTOR: