

A Bit About Compressor Oil



Lubricant is a material used to reduce friction and wear between two surfaces in motion against one another.

Friction is created when there is resistance to motion between the two surfaces



Hydrodynamic lubrication occurs when the two surfaces are completely separated by a film of lubricant

Functions of a Lubricant

- ❖ Reduce friction
- ❖ Cooling
- ❖ Cleaning
- ❖ Noise dampening
- ❖ Prevent leakage
- ❖ Prevent wear

Lubricant Properties

- ❖ **Viscosity;** thickness and resistance to "flow". Decreases (gets thinner) as temperature increases
- ❖ **Pour Point;** lowest temperature where the lubricant will flow. This determines the lowest operating temperature for the compressor
- ❖ **Flash Point;** lowest temp where lube vapor will ignite.. This is highest operating temp for the compressor
- ❖ **Total Acid Number (TAN);** amount of acidity. Determines additives needed to neutralize it. Acidity increases due to contaminants & oxidation.

Kinds of Additives

- ❖ Anti-wear
- ❖ Anti-oxidant
- ❖ Dispersant
- ❖ Pour point depressant
- ❖ Modify viscosity
- ❖ Detergent
- ❖ Friction Modifier
- ❖ Seal swell inhibitor
- ❖ Anti-foaming
- ❖ Life extension
- ❖ Protect metal surfaces

SecoLube Types

Specially Formulated for Breathing Air Compressors

- ❖ Promotes Anti-wear
- ❖ Inhibits oxidation
- ❖ Extend bearing life
- ❖ Disperses water
- ❖ Scrubs carbon and varnish
- ❖ Deters foaming
- ❖ Inhibit seal swelling
- ❖ Protect metal surfaces

STANDARD LUBES

SecoLube **NATURAL**

Type 550 Petroleum for high pressure compressors.. Great break-in lube. Budget sensitive. Protects against wear & corrosion. Flashpoint = 517°F

SecoLube **SYNTHETIC**

Type 500 Diester Synthetic. Our most popular for use in temperate to sub-tropical climates. Exceptional wear properties. Perfect for both low and high pressure compressors. Flashpoint = 520°F

SPECIALTY LUBES

SecoLube **TROPICS**

Type 800 Triester Synthetic. Our highest performing lube. Made for extreme operating environments (heat, dirt, sand). Meets or exceeds most OEM compressor standards. Flashpoint = 585°F

SPECIALTY LUBES

SecoLube **HARD-HAT**

Type 200 Synthetic Food grade. Ideal where HI food grade lubes are called for. Especially suited for surface air supply and nitrox compressors. Non-toxic, non-hazardous. Flashpoint = 510°F

SecoLube **BLUE**

Type 500 Diester Synthetic. Similar to SecoLube Synthetic but with blue tint and specialty additives to meet or exceed characteristics of OEM blue lubes. Flashpoint = 520°F

SecoLube **YELLOW**

Type 500 Diester Synthetic. Similar to SecoLube Synthetic but with yellow tint and specialty additives specially crafted for Lawrence Factor. Flashpoint = 520°F

SecoLube **FAST**

Type 300 Premium Light-weight Synthetic. Crafted for very high speed compressors of 2500+ RPM. Flashpoint = 420°F