

Basics of Rotary Screw Compressor Lubricants

By: Wayne Perry, Technical Director, Kaeser Compressors

Lubricant is a critical component in rotary screw compressors. Understanding the characteristics of lubricant types helps ensure their proper application and increases customer satisfaction by extending the service life of compressors. Below we discuss the types of lubricants and then discuss factors that reduce the effectiveness of lubricants and cause premature wear or damage in rotary screw compressors.

Types

There are seven basic types of lubricants used in compressors today. Each type of lubricant has advantages and disadvantages for specific applications.

These are:

1. Mineral oils
2. Synthetic hydrocarbons
3. Organic esters
4. Phosphate esters
5. Polyglycols
6. Silicones
7. Blends (Semi-synthetics)

Mineral Oils

Mineral oils (petroleum oils) have long been used in various types of compressors. Their use in rotary screw compressors was common until the 1980's. Some manufacturers factory filled with motor oil and some used automatic transmission fluid. Mineral oils began to lose favor when oil recyclers began to charge for oil disposal. With oil change intervals as low as every 1000 hours, many manufacturing plants had to change eight times per year. An advantage of frequent oil changes is that contaminants in the compressor are removed with the waste oil. In highly contaminated environments, mineral oil is still used

for this reason. Mineral oils have the disadvantage of a complex mix of natural hydrocarbon molecules. There are waxes that solidify at low temperatures, volatile components that vaporize and natural mineral oils tend to oxidize quickly, forming varnish and sludge, when exposed to high temperatures and elevated pressures.

Synthetic Hydrocarbons

Synthetic hydrocarbon lubricants are engineered for particular applications. For compressor applications, polyalphaolefin (PAO) base stock is most commonly used. PAOs provide many of the best lubricating features of a mineral oil without the drawbacks. Although PAO components are derived from petroleum base stock, they are chemically re-engineered to have a consistent, controlled molecular structure of fully saturated hydrogen and carbon. Because their molecular structure is homogeneous, their properties and characteristics are predictable. PAOs separate from water extremely well, are chemically stable and have low toxicity. PAOs, however, are not good solvents. The additive chemistry must be adjusted for that fact. Additive packages in PAO lubricants are usually blended to beyond their saturation point at cool temperatures. Under the normal operating conditions of compressors, this is not a problem. The elevated temperature and constant motion keep the additives dissolved. When PAO lubricants are stored for prolonged periods of time, it is possible for some of the additives to condense and cause the lubricant to have pockets of cloudiness in the storage container. These additives will return to solution with a bit of agitation/stirring. In a paper presented to an engineering meeting in Sweden several years ago, a major bearing manufacturer shared results of

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Table of Contents Basics Of Rotary Screw Compressor Lubricants Kaeser Canada

1. Understanding the eBook Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - The Rise of Digital Reading Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Advantages of eBooks Over Traditional Books
2. Identifying Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Personalized Recommendations
 - Basics Of Rotary Screw Compressor Lubricants Kaeser Canada User Reviews and Ratings
 - Basics Of Rotary Screw Compressor Lubricants Kaeser Canada and Bestseller Lists
5. Accessing Basics Of Rotary Screw Compressor Lubricants Kaeser Canada Free and Paid eBooks

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- Basics Of Rotary Screw Compressor Lubricants Kaeser Canada eBook Subscription Services
- Basics Of Rotary Screw Compressor Lubricants Kaeser Canada Budget-Friendly Options
- 6. Navigating Basics Of Rotary Screw Compressor Lubricants Kaeser Canada eBook Formats
 - ePub, PDF, MOBI, and More
 - Basics Of Rotary Screw Compressor Lubricants Kaeser Canada Compatibility with Devices
 - Basics Of Rotary Screw Compressor Lubricants Kaeser Canada Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Highlighting and Note-Taking Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Interactive Elements Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
- 8. Staying Engaged with Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
- 9. Balancing eBooks and Physical Books Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Setting Reading Goals Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Fact-Checking eBook Content of Basics Of Rotary Screw Compressor Lubricants Kaeser Canada
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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