

# PLANT ENGINEERING'S Interchangeable lubricants

Joseph L. Fossett, Senior Editor, Plant Engineering Magazine

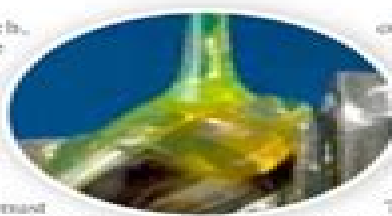
**W**hen, where, how much, and with what — these are the fundamental questions that have to be answered in equipment lubrication. The answers are normally provided by the builders of process and manufacturing equipment.

However, maintenance personnel must sometimes address the “with what” question when finding substitutes for previously used lubricants. This exclusive guide, published at 3-yr intervals, provides quick identification of major lubricant sources and cross referencing of products.

The ideal lubricant would last forever and retain all of its properties. In reality, leaks, evaporation, heat, oxidation, and contamination combine to limit its service life. Properly answering the “when” question requires monitoring, by means of oil analysis, which is a fundamental component of modern lubrication and preventive/predictive maintenance programs.

Regular laboratory analysis indicates the health of both lubricant and machine. Viscosity, contamination, oxidation, acidity, and metals content are examples of parameters analyzed.

The “where” and “how much” concerns are good candidates for the visual approach to total productive maintenance. For example, lube fittings, filler caps, oil cans, and grease guns can be color-coded for the type



of lubricant and the point of application. Captive plastic dirt caps for neck fittings are available in a variety of colors. Color-coding is often carried over to lube diagrams, which are laminated and attached to equipment or carried on lube routes.

## Using the guide

This exclusive guide presents products from 118 companies who responded to our request for information. Some chose not to respond and you will find them missing. Product names, listed in each category, were provided by the manufacturers.

Presenting the data does not reflect the quality of the lubricant, imply the performance expected under particular operating conditions, or serve as an endorsement. Lubricant and equipment manufacturers should be consulted for specific applications or questions.

## Viscosity a key factor

Viscosity is the property most widely accepted for identifying lubricants within a category. This characteristic serves as the basis for PLANT ENGINEERING magazine's product listings. Viscosity can be specified in several ways. The Viscosity/grade comparison chart compares commonly used systems. In this guide, lubricants within each category are arranged according to ISO viscosity grade, with the corresponding Saybolt viscosity shown for reference.

Viscosity/grade comparison chart

| ISO viscosity grade | Kinematic viscosity<br>Cst @ 40°C | Saybolt viscosity<br>SUS @ 100°F | Gear lubricant specification | EP gear lubricant | Worm gear lubricant |
|---------------------|-----------------------------------|----------------------------------|------------------------------|-------------------|---------------------|
| 2                   | 1.98-2.42                         | 32                               | -                            | -                 | -                   |
| 3                   | 2.69-3.52                         | 36                               | -                            | -                 | -                   |
| 5                   | 4.14-5.56                         | 46                               | -                            | -                 | -                   |
| 7                   | 5.12-7.48                         | 50                               | -                            | -                 | -                   |
| 10                  | 9-11                              | 68                               | -                            | -                 | -                   |
| 15                  | 13.5-16.5                         | 75                               | -                            | -                 | -                   |
| 22                  | 19.8-24.2                         | 100                              | -                            | -                 | -                   |
| 32                  | 28.8-35.2                         | 150                              | -                            | -                 | -                   |
| 46                  | 41.4-50.6                         | 215                              | AGMA 1                       | -                 | -                   |
| 68                  | 61.2-74.8                         | 315                              | AGMA 2                       | EP 2              | -                   |
| 100                 | 90-110                            | 460                              | AGMA 3                       | EP 3              | -                   |
| 150                 | 135-165                           | 700                              | AGMA 4                       | EP 4              | -                   |
| 220                 | 198-242                           | 1000                             | AGMA 5                       | EP 5              | -                   |
| 320                 | 288-352                           | 1500                             | AGMA 6                       | EP 6              | -                   |
| 460                 | 414-506                           | 2150                             | AGMA 7                       | EP 7              | Comp 7              |

Note: This guide covers only mineral oil-based products. A similar viscosity guide is published for synthetic lubricants (PE, July 2003, p. 46, PEI 0003). The guide is available on our web site at [plantengineering.com](http://plantengineering.com). Email the authors, and then select the July 2003 issue.

# Plant Engineering Magazine Interchangeable Lubricants Guide

**Ian Pickup**



## **Plant Engineering Magazine Interchangeable Lubricants Guide:**

## Decoding **Plant Engineering Magazine Interchangeable Lubricants Guide**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Plant Engineering Magazine Interchangeable Lubricants Guide**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### **Table of Contents Plant Engineering Magazine Interchangeable Lubricants Guide**

1. Understanding the eBook Plant Engineering Magazine Interchangeable Lubricants Guide
  - The Rise of Digital Reading Plant Engineering Magazine Interchangeable Lubricants Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Plant Engineering Magazine Interchangeable Lubricants Guide
  - 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 a Plant Engineering Magazine Interchangeable Lubricants Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Plant Engineering Magazine Interchangeable Lubricants Guide
  - Personalized Recommendations

- Plant Engineering Magazine Interchangeable Lubricants Guide User Reviews and Ratings
- Plant Engineering Magazine Interchangeable Lubricants Guide and Bestseller Lists
- 5. Accessing Plant Engineering Magazine Interchangeable Lubricants Guide Free and Paid eBooks
  - Plant Engineering Magazine Interchangeable Lubricants Guide Public Domain eBooks
  - Plant Engineering Magazine Interchangeable Lubricants Guide eBook Subscription Services
  - Plant Engineering Magazine Interchangeable Lubricants Guide Budget-Friendly Options
- 6. Navigating Plant Engineering Magazine Interchangeable Lubricants Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Plant Engineering Magazine Interchangeable Lubricants Guide Compatibility with Devices
  - Plant Engineering Magazine Interchangeable Lubricants Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Plant Engineering Magazine Interchangeable Lubricants Guide
  - Highlighting and Note-Taking Plant Engineering Magazine Interchangeable Lubricants Guide
  - Interactive Elements Plant Engineering Magazine Interchangeable Lubricants Guide
- 8. Staying Engaged with Plant Engineering Magazine Interchangeable Lubricants Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Plant Engineering Magazine Interchangeable Lubricants Guide
- 9. Balancing eBooks and Physical Books Plant Engineering Magazine Interchangeable Lubricants Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Plant Engineering Magazine Interchangeable Lubricants Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Plant Engineering Magazine Interchangeable Lubricants Guide
  - Setting Reading Goals Plant Engineering Magazine Interchangeable Lubricants Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Plant Engineering Magazine Interchangeable Lubricants Guide
  - Fact-Checking eBook Content of Plant Engineering Magazine Interchangeable Lubricants Guide

- 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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