# PLANT ENGINEERING'S Interchangeable lubricants

Jenseyk L. Foszeg, Sonia Edito: Flast Engineering Magazine

ben, 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 muchine. 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 enase wars can be onlor-coded for the type of lubricant and the point of application. Captive plastic dirt caps for zerk 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					
150 elementy grade	Constraint viscosity Cut in 40 C	Saybolt electedly Sus or 100 F	Great hybridgest specification	EF greet Submissed	Wiscon gasar Subricant
- 2	1.305-21.407	302			
-25-	2.66-3.52	-296		10.00	
100	4.14-6.06	40			
7.	6.12.7.48	50			
100	9-77	60			
100	12.5-16.5	79			
200	19.05.254.25	100			
3.0	28.6-35.2	190			
405	41.4-50.6	215	AGBAA 1		
400	81.2-74.8	2/15	ACMAR 2	65.5	
100	19/0-11/0	460	ACMAN 3	10年3年	
100	135-165	700	ACMAR 4	EP 4	
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# <u>Plant Engineering Magazine Interchangeable Lubricants</u> <u>Guide</u>

**Albert A Gayle** 

Plant Engineering Magazine Interchangeable Lubricants Guide:

#### Plant Engineering Magazine Interchangeable Lubricants Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Plant Engineering Magazine Interchangeable Lubricants Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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