

# PLANT ENGINEERING'S Interchangeable lubricants

Joseph L. Paszke, Senior Editor, Plant Engineering Magazine

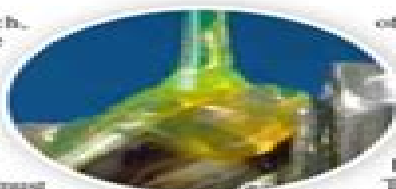
**W**hen, where, how much, and with what — these are the fundamental questions that have to be answered in equipment lubrication. The answers are normally provided by the builders of process and manufacturing equipment.

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 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.

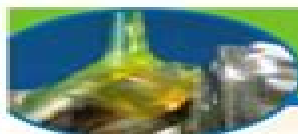
## Viscosity a key factor

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

ISO viscosity grade	Kinematic viscosity Cst @ 40 C	Saybolt viscosity SUS @ 100 F	Gear lubricant specification	EP gear lubricant	Worm gear lubricant
2	1.98-2.42	32	-	-	-
3	2.88-3.52	46	-	-	-
4	4.14-5.06	68	-	-	-
7	6.12-7.48	100	-	-	-
10	9-11	150	-	-	-
15	13.2-16.3	220	-	-	-
22	19.8-24.2	320	-	-	-
32	28.8-35.2	460	-	-	-
46	41.4-50.6	680	AGMA 1	-	-
68	61.2-74.8	1000	AGMA 2	EP 2	-
100	90-110	1500	AGMA 3	EP 3	-
150	132-163	2200	AGMA 4	EP 4	-
220	198-242	3200	AGMA 5	EP 5	-
320	288-352	4600	AGMA 6	EP 6	-
460	414-506	6800	AGMA 7	EP 7	Comp 7

Note that this guide covers only mineral oil-based products. A similar approach could be published for synthetic lubricants (PAO, Poly 2000, p. 36, Poly 3000). The guide is available on our web site at [www.plantengineering.com](http://www.plantengineering.com) from the website, and from other sites the day 2003 issue.



# Interchangeable Lubricant Guide

**Ed Staffel**

A decorative graphic element consisting of a horizontal light blue bar with a rounded right end, and a red circular glow behind it.

## **Interchangeable Lubricant Guide:**

Aircooled VW Engine Interchange Manual : The User's Guide to Original and Aftermarket Parts... Keith Seume,1996 Find out which parts will fit your engine and what theyll do for it with this valuable guide to all engine ignition and carburetion parts for your classic VW engine Tuning recommendations on equipping engines for economy performance mild performance increases fast road or full race performance Includes stock part interchange specs and parts numbers and describes the wide range of aftermarket parts available

**Transmission, Distribution, and Renewable Energy Generation Power Equipment** Bella H. Chudnovsky,2017-03-07 The revised edition presents extends and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made New sections in the second edition summarize the issues of the aging reliability and safety of electrical apparatus as well as supporting equipment in the field of generating renewable energy solar wind tide and wave power

When exposed to atmospheric corrosive gases and fluids contaminants high and low temperatures vibrations and other internal and external impacts these systems deteriorate eventually the ability of the apparatus to function properly is destroyed In the modern world of green energy the equipment providing clean electrical energy needs to be properly maintained in order to prevent premature failure The book s purpose is to help find the proper ways to slow down the aging of electrical apparatus improve its performance and extend the life of power generation transmission and distribution equipment

**Tribology** James M. Watterson,2019-01-04 Tribology A Simple Guide to the Study of Friction addresses the types of seals and bearings that are commonly found in most rotating and moving machinery including how they are designed how they work and what can be done to ensure that they continue maintain proper lubrication and successful operation

Tribology is the scientific and engineering study of friction and in common practice it most often involves the control and reduction of friction This is particularly critical to the successful and continued operation of moving parts This book addresses the types of seals and bearings that are commonly found in most rotating and moving machinery including how they are designed how they work and what can be done to ensure that they continue maintain proper lubrication and successful operation The author discusses the critical lubrication issues dealt with in gears and gear boxes focusing on specific types of mechanical seals including compression seals hydrodynamic seals hydrostatic seals and mechanical face seals Dr Watterson also introduces the reader to the major types of bearings including roller bearings ball bearings and various types of sealed bearing systems and their maintenance and lubrication requirements

**Chevrolet Small Block Parts Interchange Manual - Revised Edition** Ed Staffel,2019-08-15 If you re building a salvage yard stroker motor looking to make a numbers matching engine saving money on repurposing factory parts or simply looking to see which parts work together this book is a must have addition to your library This updated edition provides detailed interchange information on cranks rods pistons cylinder heads intake manifolds exhaust manifolds ignitions carburetors and more Casting

and serial number identification guides are included to help you through the myriad of available parts in salvage yards at swap meets and on the internet Learn what parts can be combined to create various displacements which parts match well with others where factory parts are best and where the aftermarket is the better alternative Solid information on performance modifications is included where applicable The first and second generation of small block Chevy engines have been around for more than 60 years and a byproduct of the design s extremely long production run is that there is a confusing array of configurations that this engine family has seen Chevy expert Ed Staffel delivers this revised edition on everything you need to know about parts interchangeability for the small block Chevy Build your Chevy on a budget today

Air Force Manual United States. Department of the Air Force,1969-08-09      **The Car Interchange Manual** John Douglas McAlpine,1914      *Electrical Power Transmission and Distribution* Bella H. Chudnovsky,2012-11-16 Electrical distribution and transmission systems are complex combinations of various conductive and insulating materials When exposed to atmospheric corrosive gases contaminants extreme temperatures vibrations and other internal and external impacts these systems deteriorate and sooner or later their ability to function properly is destroyed *Electrical Power Transmission and Distribution Aging and Life Extension Techniques* offers practical guidance on ways to slow down the aging of these electrical systems improve their performance and extend their life Recognize the Signs of Aging in Equipment and Learn How to Slow It A reference manual for engineering maintenance and training personnel this book analyzes the factors that cause materials to deteriorate and explains what you can do to reduce the impact of these factors In one volume it brings together extensive information previously scattered among manufacturers documentation journal papers conference proceedings and general books on plating lubrication insulation and other areas Shows you how to identify the signs of equipment aging Helps you understand the causes of equipment deterioration Suggests practical techniques for protecting electrical apparatus from deterioration and damage Supplies information that can be used to develop manuals on proper maintenance procedures and choice of materials Provides numerous examples from industry This book combines research and engineering material with maintenance recommendations given in layperson s terms making it useful for readers from a range of backgrounds In particular it is a valuable resource for personnel responsible for the utilization operation and maintenance of electrical transmission and distribution equipment at power plants and industrial facilities      **Official Gazette of the United States Patent Office** United States. Patent Office,1964-12      Optimizing Air Pollution Control Equipment Performance Jay Richardson,Louis Theodore,2024-11-21 Comprehensive overview of the air pollution control technology field including the design selection operation and maintenance of relevant devices *Optimizing Air Pollution Control Equipment Performance* delivers an analysis of the subject of air pollution control equipment from the perspective of the practicing engineer or an applied scientist rather than a theoretical perspective Written by a team of highly qualified authors with experience in both industry and academia coverage includes Design and selection of a variety of relevant

devices as well as carbon dioxide capture processes and technologies related to control of NO<sub>x</sub> Strategies to ensure that air pollution control systems meet stringent emission standards and latest technological requirements with up to date references throughout Typical problems related to air pollution control equipment emphasizing where and how these factors can have a major impact on the maintenance problems of control devices Methods to reduce maintenance costs and prevent deterioration of collector performance A timely reference detailing problems that have plagued users for nearly 100 years Optimizing Air Pollution Control Equipment Performance earns a well deserved spot on the bookshelves of professionals working in environmental control including consultants engineers and government agency personnel as well as advanced students in related programs of study **Index of Specifications and Standards** ,2005

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web the solutions to a quadratic equation can be calculated using the quadratic formula the means we need to do a plus and a minus so there are normally two solutions the blue part  $b^2 - 4ac$  is called the discriminant because it can discriminate between the possible types of answer when it is positive we get two real solutions

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web good question the answer to a problem like this is usually written as the square root of the number for example if we had an equation like  $x^2 = 57$  where the square root of 57 would be the value for  $x$  then it's normally written  $\sqrt{57}$  use the quadratic formula to solve the equation  $0 = \text{negative } 7q \text{ squared plus } 2q \text{ plus } 9$  now

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