

PLANT ENGINEERING'S Interchangeable lubricants

Joseph L. Paszecz, Senior Editor, Plant Engineering Magazine

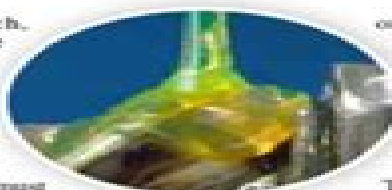
When, where, how much, and with what — these are the fundamental questions that have to be answered in equipment lubrication. The answers are normally provided by the builders of process and manufacturing equipment.

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	1,500-2,422	32	—	—	—
3	2,400-3,752	36	—	—	—
5	4,100-6,000	40	—	—	—
7	6,100-7,400	50	—	—	—
10	9,000-11,000	60	—	—	—
15	13,000-16,000	70	—	—	—
22	19,000-24,000	100	—	—	—
32	29,000-35,000	150	—	—	—
46	41,000-50,000	210	AGMA 1	—	—
68	61,000-74,000	310	AGMA 2	EP 2	—
100	90,000-110,000	400	AGMA 3	EP 3	—
150	130,000-160,000	700	AGMA 4	EP 4	—
220	190,000-240,000	1000	AGMA 5	EP 5	—
320	290,000-350,000	1500	AGMA 6	EP 6	—
460	410,000-500,000	2100	AGMA 7	EP 7	Comp 7

Note that this grade covers only mineral oil-based products. A similar tropical grade is published for synthetic lubricants (PA, July 2003, p. 36; Poly M100). The grade is available on our web site at plantengineering.com. Please see the website and then select the July 2003 issue.



Interchangeable Lubricant Guide

**Don M. Pirro, Martin Webster, Ekkehard
Daschner**



Interchangeable Lubricant Guide:

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

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

Specifications and

Drawings of Patents Issued from the United States Patent Office United States. Patent Office, 1906

Official Gazette of

the United States Patent Office United States. Patent Office, 1964-12

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 **Technical Manual** United States. War Department,1944

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 **Audel Millwrights and Mechanics Guide** Thomas B. Davis,Carl A. Nelson,2010-03-22 The hardcover fully updated edition of the only multi craft trade guide Respected by generations of skilled workers Audel Millwright s and Mechanic s Guide is the only trade manual to cover maintenance and troubleshooting for all the mechanical trades in a single volume Now available in hardcover it covers the newest equipment on shop floors as well as older machinery sometimes more than 30 years old for which little maintenance and repair information remains available Millwrights mechanics machinists carpenters pipe fitters electricians engineers and

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Lubrication Fundamentals, Revised and Expanded Don M. Pirro,Martin Webster,Ekkehard Daschner,2017-07-31 Careful selection of the right lubricant s is required to keep a machine running smoothly Lubrication Fundamentals Third Edition Revised and Expanded describes the need and design for the many specialized oils and greases used to lubricate machine elements and builds on the tribology and lubrication basics discussed in previous editions Utilizing knowledge from leading experts in the field the third edition covers new lubrication requirements crude oil composition and selection base stock manufacture lubricant formulation and evaluation machinery and lubrication fundamentals and environmental stewardship The book combines lubrication theory with practical knowledge and provides many useful illustrations to highlight key industrial commercial marine aviation and automotive lubricant applications and concepts All previous edition chapters have been updated to include new technologies applications and specifications that have been introduced in the past 15 years What s New in the Third Edition Adds three new chapters on the growing renewable energy application of wind turbines the impact of lubricants on energy efficiency and best practice guidelines on establishing an in service lubricant analysis program Updates API SAE and ACEA engine oil specifications descriptions of new engine oil tests impact of engine and fuel technology trends on engine oil Includes the latest environmental lubricant tests definitions and labelling programs Compiles expert information from ExxonMobil publications and the foremost international equipment builders and industry associations Covers key influences impacting lubricant formulations and technology Offers data on global energy demand and interesting statistics such as the worldwide population of nuclear reactors wind turbines and output of hydraulic turbines Presents new sections on the history of synthetic lubricants and hazardous chemical labeling for lubricants Whether used as a training guide for industry novices a textbook for students to understand lubrication principles or a technical reference for experienced lubrication and tribology professionals Lubrication Fundamentals Third Edition Revised and Expanded is a must read for maintenance professionals lubricant formulators and marketers chemists and lubrication surface chemical mechanical and automotive engineers 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_x 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 The Yachtsman's Annual Guide and Nautical Calendar ,1915 Code Numbers for the Identification of Fuels, Lubricants, and Allied Products Used by the NATO Armed Forces ,1992 **Car Interchange Manual** John Douglas McAlpine,1895

Index of Specifications and Standards ,2005 Plant Engineer's Handbook R. Keith Mobley,2001-05-14 Plant engineers are responsible for a wide range of industrial activities and may work in any industry This means that breadth of knowledge required by such professionals is so wide that previous books addressing plant engineering have either been limited to only certain subjects or cursory in their treatment of topics The Plant Engineering Handbook offers comprehensive coverage of an enormous range of subjects which are of vital interest to the plant engineer and anyone connected with industrial operations or maintenance This handbook is packed with indispensable information from defining just what a Plant Engineer actually does through selection of a suitable site for a factory and provision of basic facilities including boilers electrical systems water HVAC systems pumping systems and floors and finishes to issues such as lubrication corrosion energy conservation maintenance and materials handling as well as environmental considerations insurance matters and financial concerns One of the major features of this volume is its comprehensive treatment of the maintenance management function in addition to chapters which outline the operation of the various plant equipment there is specialist advice on how to get the most out of that equipment and its operators This will enable the reader to reap the rewards of more efficient operations more effective employee contributions and in turn more profitable performance from the plant and the business to which it contributes The Editor Keith Mobley and the team of expert contributors have practiced at the highest levels in leading corporations across the USA Europe and the rest of the world Produced in association with Plant Engineering magazine this book will be a source of information for plant engineers in any industry worldwide A Flagship reference work for the Plant Engineering series Provides comprehensive coverage on an enormous range of subjects vital to plant and industrial engineer Includes an international perspective including dual units and regulations *Mining Industry and Review* ,1903 *Department Of Defense Index of Specifications and Standards Alphabetical Listing Part I* July 2005 ,

Basic Mechanical Maintenance Procedures at Water and Wastewater Plants Glenn M. Tillman, 1991-08-23 This is the first volume in a series of practical operator oriented books written to help ensure the proper operation and maintenance of water and wastewater plants The guides concentrate on how to perform the actual work required to keep a plant running smoothly They are not detailed reference filled treatment studies Basic Mechanical Maintenance Procedures at Water and Wastewater Plants is written in a straightforward manner using everyday language It will show you how to keep systems running smoothly troubleshoot and solve problems reduce equipment failure practice safety and save money Each chapter is written in an easy to follow step by step format with extra pages and room for notes so you can customize the book to meet your specific needs The book includes information on the following Equipment lockout procedures Lubrication Bearings Shafts and couplings Mechanical power transmission Centrifugal pumps Reciprocating pumps Rotary pumps Valves Pipeline maintenance Maintenance schedules This book is a must have for all water and wastewater operations and maintenance personnel

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Table of Contents Interchangeable Lubricant Guide

1. Understanding the eBook Interchangeable Lubricant Guide
 - The Rise of Digital Reading Interchangeable Lubricant Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Interchangeable Lubricant 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 an Interchangeable Lubricant Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Interchangeable Lubricant Guide

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

- Fact-Checking eBook Content of Interchangeable Lubricant 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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