

Chapter 7 Lubrication Wbmanager

Chapter 1 : Lubrication

Fundamentals 2009 THIS

CHAPTER DEALS WITH THE FUNDAMENTALS of

lubrication. It covers the lubricant functions, nature and composition of the lubricants market, concepts of friction, lubrication, viscosity, and wear, lubricant types, and lubricant selection,

performance specifications, and composition. A brief description of the lubricant classes and additives is also provided. The concepts addressed in this chapter are invaluable in understanding the modern lubricant technology and the material covered in the subsequent chapters. Almost all modern machines require the use of a lubricant. Power generation in such equipment is achieved by the use of engines that mostly comprise metal parts that move against one another. In many cases, there is metal-to-metal

contact that leads to the generation of friction and heat, which results in wear. The extent of wear in equipment depends upon the degree of the metal-to-metal contact, either due to the equipment design or the nature of the operation. For example, the equipment that is designed to experience minimal metal-to-metal contact, as is the case in most parts of an internal combustion engine, there is little friction and wear. However; the parts that are designed to have intimate metal-to-metal contact, such as gears and bearings, wear due to friction is extensive. With respect to the effect of equipment operation on wear, high-speed, low-load operation leads to lower wear than slow-speed, high-load operation. This is because in the former case there is minimal metal-to-metal contact. A lubricant can be a solid, liquid, or gas, and lubrication is its primary

function. The usual objective of the lubrication is to lubricate surfaces to minimize direct metal-to-metal contact and, hence, reduce friction and wear. The term lubricant is also loosely applied to many other fluids that do not specifically perform this function. Examples include power and heat transmission fluids, hydraulic fluids, dielectric fluids, process oils, and the others. Incidentally, in this book the term lubricant pertains to a finished lubricant, that is, it comprises base fluid and additives. A lubricant performs many diverse functions, which help protect and prolong the life of the equipment [1]. These include the following: 1. Lubrication (reduce friction and wear) Lubricant helps reduce friction and wear by introducing a lubricating film between mechanical moving parts, such as gears and bearings. Essentially the presence of a lubricating film minimizes the metal-to-metal contact and reduces the force necessary to move one surface

against the other, thereby reducing wear and saving energy. 2. Cooling (heat transfer) Lubricant acts as a heat sink and dissipates the heat away from the critical moving parts of the equipment, thereby decreasing the possibility of the machine component deformation and wear. The heat is either frictional heat that results from the metal surfaces rubbing against one another, such as in gears, or is conducted and radiated heat, which is due to the close proximity of the parts to a combustion source, such as the combustion chamber in an automobile engine. 3. Cleaning and Suspending Lubricant facilitates smooth operation of the equipment by removing and suspending potentially harmful products, such as carbon, sludge, and varnish, and the other materials, such as dirt and wear debris. This lubricant function is important in operations that involve high operating temperatures, as in the case of an internal combustion engine or a

transmission. This is because in these applications the lubricant gets oxidized to form deposit precursors that can separate on hot surfaces and get converted into deposits. 4. Protection Lubricant prevents metal damage due to oxidation products, corrosion, and wear. It achieves this by forming a physical film on metal surfaces that is impervious to oxygen, water, and acids, or by forming physical and chemical films by additives, such as rust and corrosion inhibitors, extreme-pressure (EP) additives, and anti-wear agents, that are present in the lubricant. 5. Transfer Power Lubricant is used as a power transfer medium in some applications, for example, in hydraulic systems. The lubricant performs this function in addition to its normal function of lubrication. Examples of equipment that use hydraulics technology include transmissions, circulating systems, lifts used in automotive service stations, log splitters, fork lifts, dump trucks, and underground

continuous mining equipment such as drills, loaders, and miners.

Elasto-hydrodynamic

Lubrication D. Dowson 1966
Scientific and Economic Diesel Engine Lubrication
Dick and Company, W. B., Ltd 1932*

Lubrication and

Maintenance of Industrial Machinery Robert M.

Gresham 2008-10-24 A-Z Guide for Maximum Cost Reduction and Increased Equipment Reliability To remain globally competitive, today's manufacturing operations have greatly improved, but there is one last link in the advancement evolution. The reliability of manufacturing equipment must be improved in order to maximize the productive life of the equipment, eliminate unscheduled shut downs, and reduce operating costs. These are key components to maintaining a smooth work flow and a competitive edge. Written by peer-recognized industry experts, Lubrication and Maintenance of Industrial

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Machinery: Best Practices and Reliability provides the necessary tools for maintenance professionals who are responsible for the overall operational functions. With chapters culled from the second edition of the Handbook of Lubrication and Tribology, Volume 1 and a new introductory chapter, this more specialized and focused work supplies critical lubrication information that can be used on a daily basis to achieve greater machine reliability. Incorporating lean methods, this resource can be used by everyone involved in the production process, from supervisors to floor personnel. Recommended for STLE's Certified Lubrication Specialist® Certification In addition to lubrication program development and scheduling, this volume also covers critical elements of the reliability equation, such as: Deterioration detection and measurement Lubrication cleanliness and contamination control Environmental implications of various

lubricants Energy conservation Storage and handling Recycling of used oils This book fills a niche by specifically and comprehensively focusing on lubrication as part of the overall maintenance program. Under the editorial guidance of two of the most respected names in the field, this seminal work is destined to become an industry standard.

Lubrication and Reliability Handbook Michael J Neale 2000-12-08 This handbook helps engineers in industry with the operation and maintenance of machinery. It provides the information that these engineers need in a form that is instantly accessible and easy to read. The manufacturers of machinery give guidelines on the operation, lubrication and maintenance required for their particular equipment. There are however many different machines in an industrial plant or service organisation, often supplied by many different manufacturers, and there is a need to select as many similar lubricants as possible and to

use related machine techniques. This book bridges the gap which exists between the available data on the various machines by providing overall guidance on how to coordinate the recommendations of the various equipment makers. The book is structured in a number of sections that will make it easier to use, and to bring together related topics so that when a reader is focusing on a particular problem they can also refer to related material that is also likely to be of interest. THE handbook for an industrial audience consisting of plant engineers and maintenance managers. It describes the essential theory and practice relating to matters of lubrication and reliability. Unique layout and presentation of information makes this one of the best practical reference books available.

Oil-mist Lubrication Handbook

Heinz P. Bloch 1987

Multi-Level Methods in

Lubrication C.H. Venner

2000-07-21 Efficient numerical

solution of realistic and, therefore, complex equation systems occupies many researchers in many disciplines. For various reasons, but mainly in order to approximate reality, a very large number of unknowns are needed. Using classical techniques, the solution of such a system of equations would take too long, and so sometimes MultiLevel techniques are used to accelerate convergence. Over the last one and a half decades, the authors have studied the problem of Elastohydrodynamic Lubrication, governed by a complex integro-differential equation. Their work has resulted in a very efficient and stable solver. In this book they describe the different intermediate problems analyzed and solved, and how those ingredients finally come together in the EHL solver. A number of these intermediate problems, such as Hydrodynamic Lubrication and Dry Contact, are useful in their own right. In the Appendix the

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full codes of the Poisson problem, the Hydrodynamic Lubrication problem, the dry contact solver and the EHL solver are given. These codes are all written in 'C' language, based on the 'ANSI-C' version.

Effective Lubrication; Management Responsibility, Including Basic Lubrication Practice Allen F. Brewer 1974

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