

# CHAPTER 7 Lubrication Seals

# Chapter 7 Lubrication Wbmanager

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## Chapter 7 Lubrication Wbmanager:

**Scientific and Economic Diesel Engine Lubrication** Dick and Company, W. B., Ltd, 1932\*      Lubrication and Maintenance of Industrial Machinery Robert M. Gresham, George E. Totten, 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 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      **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

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