



Lubricant Additives Lubricant Additives

**A. M. Ravikovich, E. I. Petyakina, S. E.
Krein, G. I. Shor, B. V.
Kleimenov, FOREIGN TECHNOLOGY DIV
WRIGHT-PATTERSON AFB OHIO.**

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Lubricant Additives Leslie R. Rudnick, 2009-04-20 Cost environmental and performance issues coupled with legislative changes new engine oil requirements and technology development for exploration of space and the oceans are changing the lubrication additive market Reflecting how the need for new applications drives the development of new lubricant additives Lubricant Additives Chemistry and Applications Second Edition presents methods to Improve the performance efficiency and stability of lubricants Protect metal surfaces from wear Select lubricant additives for the food processing industry Select the most appropriate ashless additives Avoid microbial degradation of lubricants Lower toxicity And describes Standard lubricant testing methods and product specifications Mechanisms and benefits of specific types of lubricant additives Recent industry trends Up to Date Coverage of Lubricant Additive Chemistry and Technology Addressing new trends in various industrial sectors and improvements in technology this second edition provides detailed reviews of additives used in lubricant formulations their chemistry mechanisms of action and trends for major areas of application It explores the design of cost effective environmentally friendly lubricant technologies and lubricants for automotive industrial manufacturing aerospace and food processing applications An extensive list of online industry resources is available for download at crcpress.com

Lubricant Additives Leslie R. Rudnick, 2003-01-29 This text details the design of cost effective environmentally friendly lubricant additive technologies and components for the automotive industrial manufacturing food and aerospace industries Presenting methods to improve the performance and stability of lubricants protect metal surfaces against wear and to control deposits and contaminant Lubricant Additives Leslie R. Rudnick, 2017-07-12 This indispensable book describes lubricant additives their synthesis chemistry and mode of action All important areas of application are covered detailing which lubricants are needed for a particular application Laboratory and field performance data for each application is provided and the design of cost effective environmentally friendly technologies is fully explored This edition includes new chapters on chlorohydrocarbons foaming chemistry and physics antifoams for nonaqueous lubricants hydrogenated styrene diene viscosity modifiers alkylated aromatics and the impact of REACH and GHS on the lubricant industry Chapter 4 : Lubricant Additives , 2009 IN THIS CHAPTER WE DESCRIBE THE CHEMISTRY manufacture and properties of the chemicals that are used in lubricants as additives The function of these chemicals is either to enhance the already existing properties of the base fluids or to impart new properties that they lack Discussion also includes the mechanism by which each additive type performs its functions multifunctional nature of some additives and their impact on the environment The need and the development of a new additive and the process by which it is approved for use in a particular application are also explained All mechanical equipment must be lubricated The primary purpose is to reduce friction and wear If not controlled these can lead to inefficiencies damage and ultimately to equipment seizure Pictorial records depicting the use of lubricants date as far back as 1650 B C Analysis of the residue from chariot axle hubs suggests the use of animal fat as a lubricant as early as 1400

B C This practice continued until 1859 when petroleum based lubricants became available While the claimed use of additives in lubricants dates far back into the 1860s the modern history of lubricant additives began in the early 20th century with the use of fatty oils and sulfur in mineral oils to improve lubrication under high loads The use of additives became common only after the 1930s when more compact and faster engines were developed and the OEMs stalled to specify oils for use in their equipment 181 182 However these were the military needs during and after the Second World War that were the major driving force behind the development of the lubricant additives as we know them today This is because the fast running engines had a complex design which placed a heavy demand on the lubricants At that time besides the SAE viscosity classification system there were no established performance criteria and the end user had to depend on the lubricant supplier s claims regarding the suitability of the lubricants 182 Additives are not only critical to the manufacture and use of automotive fuels and lubricants they are also extensively used in petroleum recovery as drilling additives and refining as refinery chemicals 183 This was discussed in Chapter 2 on Mineral Base Stocks Some of the highlights of the additives development are as follows 1 Sodium soap greases were developed in the 1930s They did not suffer from water sensitivity and had better resistance to high temperatures than the lime or calcium soap calcium carboxylate greases the use of which dates back to the 1880s 2 In 1937 the lubricants containing a lead soap active sulfur additive combination known as an extreme pressure or EP additive system was found to be effective When GM in its 1937 models introduced hypoid axles it tested and recommended the use of a number of such lubricants 3 Complex calcium soap greases were invented in 1940 lithium soap greases were invented in 1942 1943 and barium greases were invented in the 1950s These greases retain their semi solid morphology at much higher temperatures than their sodium and calcium analogues They contain sodium nitrite to inhibit corrosion and oxidation 4 Until 1947 the performance of the engine oils was defined solely by their viscosity grades without due consideration to the engine design its operating environments and the fuel type and quality In 1947 API introduced three performance categories regular premium and heavy duty based on the severity of service Regular oils were straight mineral oils with or without viscosity modifiers and corresponded to oils defined previously by the viscosity grades These oils were for both gasoline and diesel engines operating under mild to moderate service conditions Premium oils designed for somewhat more severe operating conditions generally contained oxidation and corrosion inhibitors and in some cases mild detergents Heavy duty oils possessed better oxidation and corrosion resistance and detergency than the premium oils and were designed to withstand the most severe service 5 In the early 1950s multi grade oils were an outcome of the development of the viscosity modifiers These were made by dissolving polymeric materials to low viscosity or thin oils

Series on Emission Scenario Documents Lubricants and Lubricant Additives OECD,2014-09-03 This OECD Emission Scenario Document ESD provides information on the sources use patterns and release pathways of chemicals used in lubricants to assist in the estimation of releases of chemicals into the environment **Advances in Lubricant Additives**

and Tribology S.P. Srivastava,2009-03-15 It is understood that hydrogen is going to be the future clean fuel which can either be used in fuel cells or directly in engines This will mean that there will be challenges to the lubricant developers to meet the requirements of new engines using hydrogen as fuel where there would be no soot no sulphur and no carbon deposits from fuels Lubricating base oil technology has changed during the last decade API group III oils produced through hydro processes and GTL base oils are free from sulphur and nitrogen and have high viscosity index Therefore the engine oil formulations would have to change considerably in the near future The use of biodegradable lubricants mainly based on vegetable oils or genetically modified vegetable oils would increase in the agricultural and forest sector This book incorporates up to date information on these important subjects which shall enable the readers to understand the dynamics of lubricant additive technology and tribology The book will be useful to all those engaged in education and research in the field of lubricant additives and lubricants

Lubricant Additives and the Environment Technical Committee of Petroleum Additive Manufacturers in Europe,Confederation of European Chemical Industries,1993

Fuels and Lubricants Handbook , *Lubricant Additives* Maurice William Ranney,1978 *Chemistry and Technology of Lubricants* Roy M. Mortier,Malcolm F. Fox,Stefan Orszulik,2011-04-14 Chemistry and Technology of Lubricants describes the chemistry and technology of base oils additives and applications of liquid lubricants This Third Edition reflects how the chemistry and technology of lubricants has developed since the First Edition was published in 1992 The acceleration of performance development in the past 35 years has been as significant as in the previous century Refinery processes have become more precise in defining the physical and chemical properties of higher quality mineral base oils New and existing additives have improved performance through enhanced understanding of their action Specification and testing of lubricants has become more focused and rigorous Chemistry and Technology of Lubricants is directed principally at those working in the lubricants industry as well as individuals working within academia seeking a chemist s viewpoint of lubrication It is also of value to engineers and technologists requiring a more fundamental understanding of the subject

ASTIA Subject Headings Defense Documentation Center (U.S.),1959 *All-union Congress on the Chemistry and Application of Lubricant and Fuel Additives (2nd). 1966. Lubricant Additives. Transactions (selected Articles).* A. M. Ravikovich,E. I. Petyakina,S. E. Krein,G. I. Shor,B. V. Kleimenov,FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO.,1969 Contents Lubricating oil antiwear additive obtained on the basis of aromatic extract of oils and phosphorus pentasulfide Investigation of the solubilizing capacity of motor oil additives Investigation of the mechanism of the effect of detergent motor oil additives Reactions of organochlorophosphorus compounds with a metallic friction surface

Bibliography of Scientific and Industrial Reports ,1965-07 **U.S. Government Research & Development Reports** ,1965 **Chemistry and Technology of Lubricants** R. M. Mortier,S. T. Orszulik,2012-12-06 The use of lubricants began in ancient times and has developed into a major international business through the need to lubricate machines of increasing complexity The impetus for lubricant

development has arisen from need so lubricating practice has preceded an understanding of the scientific principles. This is not surprising as the scientific basis of the technology is by nature highly complex and interdisciplinary. However, we believe that the understanding of lubricant phenomena will continue to be developed at a molecular level to meet future challenges. These challenges will include the control of emissions from internal combustion engines, the reduction of friction and wear in machinery, and continuing improvements to lubricant performance and life time. More recently, there has been an increased understanding of the chemical aspects of lubrication which has complemented the knowledge and understanding gained through studies dealing with physics and engineering. This book aims to bring together this chemical information and present it in a practical way. It is written by chemists who are authorities in the various specialisations within the lubricating industry and is intended to be of interest to chemists who may already be working in the lubricating industry or in academia and who are seeking a chemist's view of lubrication. It will also be of benefit to engineers and technologists familiar with the industry who require a more fundamental understanding of lubricants.

Lubricants Or Lubricant Additives Composed of Ionic Liquids Containing Ammonium Cations, 2010. A lubricant or lubricant additive is an ionic liquid alkylammonium salt. The alkylammonium salt has the structure $R_xNH_4^+ F_3C-CF_2)_ySO_2)_2N^+$ where x is 1 to 3, R is independently C_1 to C_{12} straight chain alkyl, branched chain alkyl, cycloalkyl, alkyl substituted cycloalkyl, cycloalkyl substituted alkyl, or optionally when x is greater than 1, two R groups comprise a cyclic structure including the nitrogen atom and 4 to 12 carbon atoms, and y is independently 0 to 11. The lubricant is effective for the lubrication of many surfaces including aluminum and ceramics surfaces. Frontiers of Manufacturing and Design Science II, Dong Ye Sun, Wen Pei Sung, Ran Chen, 2011-10-24. Selected peer reviewed papers from the Second International Conference on Frontiers of Manufacturing and Design Science ICFMD 2011, December 11-13, Taiwan.

U.S. Government Research and Development Reports, 1965. **Lubricant Additives**, C. V. Smalheer, R. Kennedy Smith, 1967. **Selection of Possible Lubricant Additives for Hydraulic Fluids**, Carol J. Schroeder, ARMY WEAPONS COMMAND, ROCK ISLAND ILL. RESEARCH AND ENGINEERING DIRECTORATE., 1970. The purpose of the project was to examine the lubrication characteristics of possible lubricant additives and nonlubricant additives and to determine which lubricant additives might be feasible as lubrication improvers for hydraulic fluids. The base oil of MIL-H-5606 was obtained and 30 possible lubricant additives and 10 nonlubricant additives in various selected concentrations were evaluated. Author.

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