



Lubricants: Introduction to Properties and Performance

Marika Torbacke, Åsa Kassman Rudolphi, Elisabet Kassfeldt

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Those working with tribology often have a background in mechanical engineering, while people working with lubricant development have a chemistry/chemical engineering background. This means they have a tradition of approaching problems in different ways. Today's product development puts higher demands on timing and quality, requiring collaboration between people with different backgrounds. However, they can lack understanding of each other's challenges as well as a common language, and so this book aims to bridge the gap between these two areas.

Lubricants: Introduction to Properties and Performance provides an easy to understand overview of tribology and lubricant chemistry. The first part of the book is theoretical and provides an introduction to tribological contact, friction, wear and lubrication, as well as the basic concepts regarding properties and the most commonly made analyses on lubricants. Base fluids and their properties and common additives used in lubricants are also covered. The second part of the book is hands-on and introduces the reader to the actual formulations and the evaluation of their performance. Different applications and their corresponding lubricant formulations are considered and tribological test methods are discussed. Finally used oil characterisation and surface characterisation are covered which give the reader an introduction to different methods of characterising used oils and surfaces, respectively.

Key features:

- Combines chemistry and tribology of lubricants into one unified approach
- Covers the fundamental theory, describing lubricant properties as well as base fluids and additives
- Contains practical information on the formulations of lubricants and evaluates their performance
- Considers applications of lubricants in hydraulics, gears and combustion engines

Lubricants: Introduction to Properties and Performance is a comprehensive reference for industry practitioners (tribologists, lubricant technicians, and lubricant chemists, etc) and is also an excellent source of information for graduate and undergraduate students.

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