Lubrication Tactics For Industries Made Simple

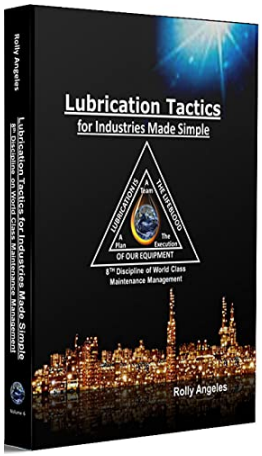
Have you ever wondered how industries keep their machinery running smoothly? One of the key factors is proper lubrication. Lubrication plays a crucial role in reducing friction, preventing wear and tear, and increasing the lifespan of the equipment. In this article, we will explore some simple lubrication tactics that industries use to ensure optimal performance.

The Importance of Lubrication

Lubrication is the process of applying a lubricant to reduce friction between two surfaces in motion. It helps to minimize heat generation, prevent metal-to-metal contact, and protect against rust and corrosion. Without proper lubrication, the machinery can suffer from excessive wear, overheating, and breakdowns.

Choosing the Right Lubricant

One of the initial steps in an effective lubrication strategy is selecting the appropriate lubricant for the specific machinery and application. Different types of machinery may require different lubricants based on factors such as speed, load, temperature, and environment. Lubricants can be classified into three main categories:



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1. Mineral-based lubricants: These are traditional lubricants derived from crude oil. They provide good lubrication properties at an affordable price.
2. Synthetic lubricants: These lubricants are chemically engineered to meet specific performance requirements. They offer superior lubrication, extended service life, and enhanced protection against extreme temperatures and environmental factors.
3. Biodegradable lubricants: These lubricants are environmentally friendly and often used in applications where spillage or leakage may occur.

Proper Lubrication Techniques

Once the suitable lubricant is chosen, applying it correctly is crucial for optimal performance. Here are some effective lubrication techniques employed by industries:

1. Regular Lubrication Schedule

Industries often follow a strict lubrication schedule to ensure that all machinery is properly lubricated at regular intervals. This helps in reducing downtime,

maintaining consistent performance, and preventing unexpected breakdowns.

2. Lubrication Quantity

Applying the right amount of lubricant is essential. Both over-lubrication and under-lubrication can cause problems. Over-lubrication can lead to excess heat generation and energy consumption, while under-lubrication may result in friction, wear, and premature failure.

3. Lubrication Method

Industries employ various lubrication methods, including manual lubrication, automatic centralized lubrication systems, and oil mist lubrication. The method chosen depends on factors such as equipment design, accessibility, and maintenance requirements.

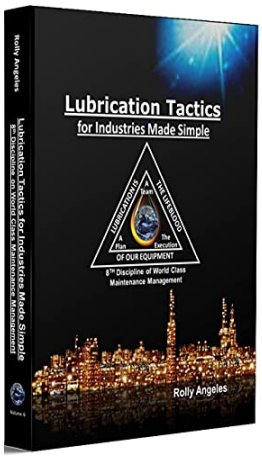
4. Inspection and Maintenance

Regular inspection and maintenance of the lubricated equipment is crucial. This helps in identifying potential issues, such as leaks or contaminated lubricants, which can be addressed promptly to avoid any major problems.

5. Quality Lubricants

Using high-quality lubricants is vital for maximizing equipment performance and longevity. Industry professionals often rely on trusted lubricant suppliers who provide products that meet industry standards and specifications.

Lubricating machinery is a critical aspect of industrial operations. By choosing the right lubricant, following proper lubrication techniques, and maintaining a regular lubrication schedule, industries can ensure the smooth functioning of their equipment, extend its lifespan, and reduce downtime and maintenance costs. Remember, proper lubrication is an investment that pays off in the long run.



Lubrication Tactics for Industries Made Simple: 8th Discipline of World Class Maintenance Management by Rolly Angeles (Kindle Edition)

4.2 out of 5

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Screen Reader	: Supported
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This Book will Help your Industries Reduce the Cost of Lubricants and Lubrication Problems in Industries.

The subject of lubrication is very broad indeed and is evolving continuously with new technologies and developments as time passed. As a result, some of the things that have been written and published are now bygone and obsolete. While most maintenance and lubrication people I know are not educated properly on lubrication. Most of their decision on which lubricant to use and when to change it is based most often on OEM recommendations. The purpose of writing this book is to provide the maintenance people and the lubricant users an easy-to-understand and straightforward approach to lubrication that they can adapt easily in their plant to reduce lubricant related failures and reduce their maintenance costs.

Lubricants can also be said to be the lifeblood of the equipment. The costs of lubricants in the industry only tell us just one side of the story. The much higher cost can be seen in the number of breakdowns and failures encountered daily

caused by incorrect practices and myths on lubrication. The costs of failures attributed to lubrication are a minimum of 2 folds the costs of lubricants that are consumed in the equipment. This means that if your industry is a heavy user of lubrication, such as in the mining industry, multiply this by a minimum of two and that would be the estimated cost of failures attributed to lubrication.

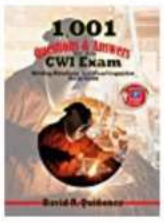
Some of the highlights that are covered in this book include the following

- Why There is No Lubrication Engineering Course in College?
- Is it possible to remove contaminants in the oil?
- Extended Oil Drain – Myth or Fact
- Does Oil Really Wear Out?
- Selecting the Correct Lubricating Oil for the Equipment
- Can We Mixed Different Grades and Brands of SAE Engine Oil?
- Grease Incompatibility Issue
- Advantages of Synthetic Oil over Petroleum Oil
- Frequently Asked Questions on Synthetic Oil
- Different Viscosity Grades for Industrial Lubricants
- Does Lubricating Oil Really Wear Out?
- Six Myths About Lubrication
- Ten Strategies to Adapt to Lubrication and Contamination Control
- Why is the Study of Tribology Important to Industries?
- Why Lubrication Failures Repeat Itself
- Benefits of Oil Analysis
- Why Does Oil Analysis Program Fail in Some Industries?
- Tips for Conducting Oil Analysis
- Lubrication Tactics on Lubricating Oil
- Lubrication Tactics on Oil Contamination Control(Code)

- Lubrication Tactics on Greasing
- Steps on Adopting a Lubrication Strategy

Contamination is the main problem with lubrication, and it has always been there in the equipment, and it comes not only in solid form but in liquid and air (bubbles). The author believes that the more contamination present in lubricating oil, then the more chances of failures to happen, not only in hydraulics but in all lubricating systems.

This book explains what these contaminants can do and if it is possible to remove them from the oil. Whether your industry is a large consumer or not of lubricants, there are way too many problems experienced by maintenance people regarding lubrication. To name a few, we have problems with bearing failures, oil leakage, lack of procedure, human errors in mixing lubricants, wrong or obsolete procedures on lubrication, spillages, over lubrication, under lubrication, abrasion, oil contamination, oil oxidation, premature failures, improper storage of new lubricants, grease incompatibility issues, high lubrication costs, guesstimate on greasing interval, lack of knowledge, cost-cutting schemes on lubrication training, and you name it.



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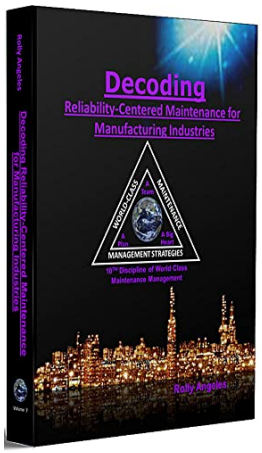

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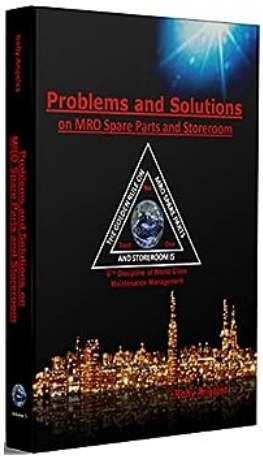

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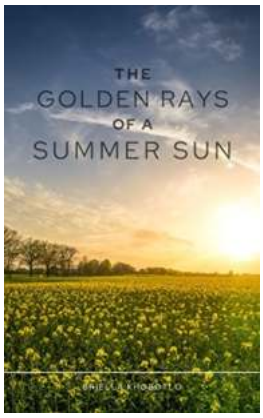

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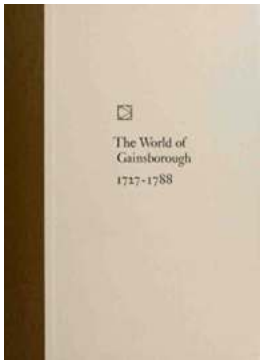

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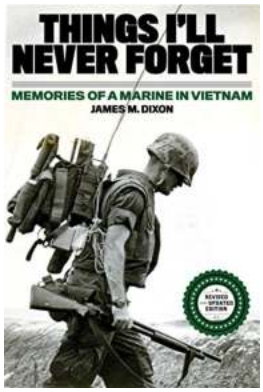

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