

Global Lubricant Additives Market Outlook to 2027

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Abstracts

Lubricant Additives are specialty synthetic compounds used to manufacture character-specific lubricants to enhance and improve product implementation, making a high-value product much better. According to BlueQuark Research & Consulting, the global lubricants additives market is expected to witness a significant growth rate during the forecast period. Factors such as the advancing technologies in the lubricants additive industry to diversify their abilities using eco-friendly chemicals are surging. Further, advanced lubricant additives additionally advantage the climate by helping in reducing the carbon dioxide discharges from vehicles and permitting the powerful utilization of energy assets. Furthermore, the rising demand for lubricant additives due to their high functionality and versatility following the desired performance from the transportation and metallurgical industries further propels the growth of the lubricants additive market. However, the volatility in raw material prices is expected to restrain the growth of lubricants additives markets in the forecasted year.

Lubricant additives are used to produce dispersants, viscosity index improvers, detergents, anti wear additives, antioxidants, and friction modifiers, among others such as corrosion inhibitors and emulsifiers. It serves various end-user industries such as Automotive, Marine, and Metallurgy, and Industrial Industries.

The Automotive Industry is a prime consumer of Lubricant Additives globally and is expected to drive the future market. Lubricant additives enhance the existing oil-based properties while suppressing undesirable base oil properties. Its addition imparts new properties to base oil, making it much more efficient. The increasing population and rapid urbanization have increased the sales of automotive vehicles globally, driving the tire industry. Due to the rapid urbanization in developing countries like China and India, commercial vehicles such as trucks, tractors, and trailers are on the surge. Furthermore, the Automotive Industry is experiencing a boom in the electric vehicle market. Thus, the need to improve the vehicle's performance is surging for efficient fuel usage, which is

the rising demand for lubricants in automobiles. The recommended engine oil change period is about 5,000 to 7,500 miles to enhance the drive experience. Due to the rapid urbanization in emerging countries like China and India, commercial vehicles such as trucks, tractors, and trailers are on the surge. High-duty motor oil has high-viscosity engine oils, capable of sustaining strict emission standards and extreme geographical conditions. Viscosity improvers find vast application in different engine oils, gear oils, automatic transmission fluids, power steering fluids, greases, and several hydraulic fluids. Most of these oils find their worn in automobiles. Thus, vehicles are subjected to rapid temperature changes. For instance, during the winter days in the morning, a lubricating oil with low viscosity at a low temperature is required for the oil pump to push the oil to the topmost of the machine. In these circumstances, the oil must be viscous to preserve the machine when it reaches operating temperature. At this point, viscosity modifiers have an important role, moreover, among several viscosity index improvers. High-quality viscosity index improvers are reduced prone to permanent shear loss than low-cost and low-quality VI improvers. However, these additives avoid their capability to act as a more viscous fluid at excessive temperatures. Moreover, higher molecular weight polymers help make better thickeners with lesser resistance to mechanical shear. Lower molecular weight polymers are found to have more shear-resistant. However, they cannot improve viscosity as efficiently at higher temperatures. Thus, they are recommended to be used in larger quantities. These factors are expected to drive the demand for lubricants additives in the forecasted years.

Major global players in the Industry areChevron Chemicals,Eni Oil Corporation,Evonik Chemicals,BASF,Laxness,Infineum,BRB International BV,Bayer AG,Rossari Biotech Ltd,Clariant,Dystar Group,Dow Chemicals,among others.

The Asia Pacific is expected to be the largest market for lubricant additives owing to the rapidly increasing demand in the Transportation and Industrial works Industry. Some of the world's largest ports are located in the region, with the largest being Port of Shanghai, located in China which handles 744 million tonnes of cargo annually, followed by Port of Singapore, connecting to more than 100 countries while holding around 20% of the entire world's cargo containers. Furthermore, the increasing expenditure and expanding naval armies of China and India are expected to drive the global lubricant additives market. Since China's growth rate had been impressive in the last decades, the following decade is also likely to witness the same rise, making China a leader in Lubricant additives demand. Antioxidants help inhibit the oxidation process of oils as the mineral oils react with the oxygen of the air, forming organic acid. Some oxidation products such as peroxide, alcohols, acids, esters, aldehydes, and ketones increase the viscosity of oil, form sludge and varnish, and corrode the metallic parts that

are prone to oxidation. Therefore, antioxidants are additives that help improve base oil's oxidative resistance and allow the lubricants to operate effectively at higher temperatures. The antioxidants used as additives are zinc dithiophosphate (ZDP), alkyl sulfides, aromatic sulfides, aromatic amines, and hindered phenols. With the rapid industrialization in the region, the demand for heavy-duty vehicles for commercial purposes is also increasing. This surge in demand is attributed to the increasing construction activities in the Asia Pacific region. China has been funding massive infrastructural projects globally, which is expected to further strengthen its position as the focus shifts from the west to the east since the start of the 21st century. Factors like the growth of the automotive, marine, and industrial sectors are expected to drive the Lubricants Additives market in the region.

In February 2021, Lanxess AG paid USD 1 billion to gain a US-based claim to specialty chemical producer Emerald Kalama Synthetic, which manufactures corrosion inhibitors for lubricants and cutting liquids.

Global Lubricant Additives Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Lubricant Additives market by segmenting based on the Function (Emulsifiers, Corrosion Inhibitors, Anti-Oxidant, Viscosity Index, Improvers Others), Applications (Hydraulics Oil, Engine Oil, Gear Oil, Process Oil, Grease, Others), End-User (Transportation, Metallurgy, Industrial, Others) and Geography (Asia-Pacific, North America, and Europe). The report calculates the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the Industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

Contents

1. Executive Summary

2. Research Scope and Methodology

- 2.1 Aim & Objective of the study
- 2.2 Market Definition
- 2.3 Study Information
- 2.4 General Study Assumptions
- 2.5 Research Phases

3. Market Analysis

- 3.1 Introduction
- 3.2 Market Dynamics
 - 3.2.1 Drivers
 - 3.2.2 Restraints
- 3.3 Market Trends & Developments
- 3.4 Market Opportunities
- 3.5 Feedstock Analysis
- 3.6 Regulatory Policies
- 3.7 Analysis of Covid-19 Impact

4. Industry Analysis

- 4.1 Supply Chain Analysis
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Competition in the Industry
 - 4.2.2 Potential of New Entrants into the Industry
 - 4.2.3 Bargaining Power of Suppliers
 - 4.2.4 Bargaining Power of Consumers
 - 4.2.5 Threat of substitute products

5. Market Segmentation & Forecast

5.1 By Function

- 5.1.1 Emulsifiers
- 5.1.2 Corrosion Inhibitors
- 5.1.3 Anti-Oxidant

5.1.4 Viscosity Index Improvers

5.1.5 Others

5.2 By Applications

5.2.1 Hydraulics Oil

5.2.2 Engine Oil

5.2.3 Gears Oil

5.2.4 Process Oil

5.2.5 Grease

5.2.6 Others

5.3 By End-User Industry

5.3.1 Transportation

5.3.2 Metallurgy

5.3.3 Industrial

5.3.4 Others

Regional Market Analysis

6.1 North America

6.1.1 United States

6.1.2 Canada

6.1.3 Mexico

6.2 Europe

6.2.1 United Kingdom

6.2.2 Germany

6.2.3 Italy

6.2.4 France

6.2.5 Russia

6.2.6 Nordic Countries

6.2.7 Rest of Europe

6.3 Asia-Pacific

6.3.1 China

6.3.2 India

6.3.3 Japan

6.3.4 South Korea

6.3.5 Rest of Asia-Pacific

6.4 South America

6.4.1 Brazil

6.4.2 Argentina

6.4.3 Rest of South America

6.5 Middle East & Africa

- 6.5.1 South Africa
- 6.5.2 Saudi Arabia
- 6.5.3 Rest of Middle East & Africa

Company Profiles

Chemicals

Corporation

Chemicals

:

International BV

G

Biotech Ltd

nc

roup

Chemicals

Chemicals

Corporation

es is not exhaustive

Competitive Landscape

of Notable Players in the Market
A, JV, and Agreements
Market Share Analysis
Strategies of Key Players

Conclusions and Recommendations

List Of Tables

LIST OF TABLES

Global Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

North America Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

United States Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Canada Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Mexico Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Europe Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

United Kingdom Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Other Supporting Charts

Germany Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Italy Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

France Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Rest of Europe Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

South America Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Brazil Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Argentina Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Rest of South America Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Asia-Pacific Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

China Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

India Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Japan Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

South Korea Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Rest of Asia-Pacific Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Middle East & Africa Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Saudi Arabia Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

South Africa Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

Rest of Middle-East & Africa Lubricant Additives Market Size, Market Growth & Market Forecast Volume(in Kilotons), 2016-2026

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