

Global Bio-lubricants Market Size Study & Forecast, By Source (Vegetable Oil and Animal Oil), By End-Use (Industrial, Commercial Transportation and Consumer Automotive) and Regional Analysis, 2023-2030

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Abstracts

Global Bio-lubricants Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030.

The bio-lubricants market encompasses lubricants derived from renewable sources such as vegetable oils, animal fats, and other bio-based materials. These lubricants are biodegradable, minimally toxic, and have lower environmental impacts compared to conventional petroleum-based lubricants. The market is primarily driven by increasing environmental awareness and regulations promoting sustainable practices across various industries. The shift towards bio-lubricants is fueled by concerns over pollution, resource depletion, and the need for eco-friendly alternatives. Government initiatives supporting the use of bio-based products, coupled with rising investments in research and development for advanced bio-lubricant formulations, are significant drivers of market growth. End-users are increasingly adopting bio-lubricants in automotive, industrial, marine, and other sectors due to their superior biodegradability, lower emissions, and improved performance characteristics. As sustainability becomes a core focus globally, the bio-lubricants market is poised for continued expansion and innovation, offering opportunities for manufacturers, suppliers, and consumers alike to participate in a greener and more sustainable future.

The bio-lubricants market is being propelled by the growth of the automotive sector, especially in emerging markets like India, China, South Africa, and Brazil, where there is a rising demand for sustainable products that contribute to improved fuel efficiency and

reduced carbon emissions from vehicles. However, challenges persist due to the dependency of bio-lubricant production on the supply of vegetable and animal oils, which are often by-products of other industrial processes. The complexity of processing technologies also adds to the initial production costs, posing a restraint to market growth in the forecast period. Nevertheless, plant-based oils are emerging as promising substitutes for traditional mineral oils in bio lubricant production. This trend is due to the structural similarities between plant-based oils and the long-chained hydrocarbons found in mineral oils. These oils offer several advantages such as renewability, non-toxicity, and environmental friendliness, which are driving their increased utilization in bio-lubricant formulations. Key plant sources include soybean, rapeseed, and canola oils, highlighting the ongoing shift towards more sustainable and eco-friendly lubricant solutions in various industries.

The key regions considered for the Global Bio-lubricants Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. The bio-lubricants market witnessed dominance from North America, securing the largest revenue share in 2022. This growth can be attributed to a resurgence in the automotive industry within the U.S. and Canada. Additionally, increased regulatory measures by the U.S. government, mandating minimum renewable content in various products, have fueled the consumption of bio-based lubricants in the region. These factors collectively contributed to North America's prominent position in the bio-lubricants market.

Asia Pacific is poised to exhibit the most substantial Compound Annual Growth Rate (CAGR) throughout the forecast period, primarily fueled by its status as a major hub for automobile manufacturing. With countries such as China, India, Indonesia, and various Southeast Asian nations witnessing a notable uptick in the production and export of passenger cars and other vehicles, particularly to developed regions, the demand for bio-lubricants is expected to soar. This surge in automotive manufacturing activity underscores the critical need for sustainable and eco-friendly lubrication solutions like bio-lubricants, thus driving the growth of the market in the Asia Pacific region.

Major market players included in this report are:

TotalEnergies

Exxon Mobil Corporation

Shell plc

CASTROL LIMITED

PETRONAS Lubricants International

Kluber Lubrication

Emery Oleochemicals

Chevron Corporation

Albemarle Corporation

FUCHS

Recent Developments in the Market:

In April 2023, Exxon Mobil announced its investment of around USD 110 million in setting up a lubricants production plant in India. The facility is scheduled to start operations by the end of 2025 and is expected to have a production capacity of up to 159 million liters of finished lubricants annually.

In July 2022, Chevron Corporation launched a novel synthetic grease containing biodegradable synthetic esters. This formulation aligns with the 2013 Vessel General Permit (VGP) regulations established by the U.S. Environmental Protection Agency (EPA) for environmentally acceptable lubricants (EALs).

Global Bio-lubricants Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Source, End-Use, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and Source offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Source:

Vegetable Oil

Animal Oil

By End-Use:

Industrial

Commercial Transportation

Consumer Automotive

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

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