

Bio-Lubricants Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global bio-lubricants market size reached US\$ 2.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 2.8 Billion by 2028, exhibiting a growth rate (CAGR) of 3.9% during 2023-2028.

Bio-lubricants are prepared by chemical modification of plant-based oils, such as epoxidation, transesterification and esterification reactions. These lubricants are widely used to reduce friction between different surfaces. As they are non-toxic, eco-friendly, bio-degradable and renewable, bio-lubricants are utilized in heavy machineries, such as railroad flanges, chainsaw bars and two-stroke engines. Besides this, they are required in less quantity during application and offer several advantages over synthetic and mineral oil-based lubricants. At present, technological advancements, along with increasing research and development (R&D) activities by key participants, are creating new avenues for bio-lubricant applications.

Bio-Lubricants Market Trends:

Bio-based lubricants are progressively gaining prominence over conventional petroleum-based oils on account of stringent government regulations and the increasing applications in the power generation and manufacturing industries. Moreover, the escalating demand for lubricants with superior product characteristics, such as biodegradability, high flash points, constant viscosity and lower emission levels, is acting as another growth-inducing factor. Apart from this, the depletion of crude oil reserves across the globe, in confluence with the inflating crude oil prices, has considerably raised the demand for bio-based materials. Other factors such as the growing R&D initiatives, technological innovations, increasing environmental concerns and stringent government regulations on the usage of synthetic lubricants are expected to drive the market in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global bio-lubricants market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on base oil type, application and end use industry.

Breakup by Base Oil Type:

- Vegetable Oils
- Animal Fats

Breakup by Application:

- Hydraulic Fluids
- Metalworking Fluids
- Chainsaw Oils
- Mold Release Agents
- Two-Cycle Engine Oils
- Gear Oils and Greases
- Others

Breakup by End Use Industry:

- Power Generation
- Automotive
- Heavy Equipment
- Food & Beverage
- Metallurgy & Metalworking
- Chemical Manufacturing
- Others

Breakup by Region:

- North America
- United States
- Canada
- Asia-Pacific
- China

Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Albemarle Corporation, BP Plc, Chevron Corporation, Emery Oleochemicals, Exxon Mobil Corporation, Fuchs Petrolub SE, Klüber Lubrication München SE & Co. KG (Freudenberg Chemical Specialities SE & Co. KG), Panolin AG, Polnox Corporation, Quaker Chemical Corporation, Royal Dutch Shell PLC and Total SE.

Key Questions Answered in This Report

1. What was the size of the global bio-lubricants market in 2022?
2. What is the expected growth rate of the global bio-lubricants market during 2023-2028?
3. What are the key factors driving the global bio-lubricants market?
4. What has been the impact of COVID-19 on the global bio-lubricants market?
5. What is the breakup of the global bio-lubricants market based on the base oil type?
6. What is the breakup of the global bio-lubricants market based on application?
7. What is the breakup of the global bio-lubricants market based on the end use industry?

8. What are the key regions in the global bio-lubricants market?
9. Who are the key players/companies in the global bio-lubricants market?

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