

# **Aviation Lubricants Market Report by Type (Hydraulic Fluid, Engine Oil, Grease, Special Lubricants and Additives), Technology (Mineral-based, Synthetic), Platform (Commercial Aviation, Military Aviation, Business and General Aviation), End User (OEM, Aftermarket), and Region 2024-2032**

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## **Abstracts**

The global aviation lubricants market size reached US\$ 2.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 3.7 Billion by 2032, exhibiting a growth rate (CAGR) of 5.6% during 2024-2032. The market is driven by the growth in air travel, ongoing advancements in aircraft technology, implementation of stringent regulations on engine performance and efficiency, increasing focus on reducing environmental impact and heightening demand for fuel efficiency.

### **Aviation Lubricants Market Analysis:**

**Major Market Drivers:** The aviation lubricants market is significantly driven by the expansion of the global air travel industry and advancements in aircraft technology. Increased aviation lubricants demand for fuel-efficient and high-performance engines necessitates advanced lubricants that enhance engine life and efficiency. Stringent regulations imposed by aviation authorities to ensure engine reliability and safety further boost the need for specialized lubricants. Additionally, the rise in commercial and military aviation activities globally and the increasing focus on reducing carbon emissions and enhancing operational efficiency are key factors propelling market growth. The continuous development of new aircraft models and the modernization of existing fleets also contribute to the rising demand for high-quality aviation lubricants.

**Key Market Trends:** The shift toward synthetic and high-performance lubricants due to their superior properties in extreme conditions is a key trend propelling the aviation lubricants market growth. These advanced lubricants offer better thermal stability, oxidation resistance, and reduced friction, which are crucial for modern aircraft engines. Another trend is the growing emphasis on sustainability, with increased research into eco-friendly lubricants that minimize environmental impact. Additionally, technological advancements are leading to the development of smart lubricants that can provide real-time performance data. The integration of digital technologies, such as predictive maintenance systems, is becoming more prevalent, influencing the formulation and application of aviation lubricants to ensure optimal engine performance and longevity.

**Geographical Trends:** Asia Pacific is the largest market for aviation lubricants. Countries, such as China and India, are experiencing significant increase in air travel due to their expanding economies and rising middle-class population. The aviation lubricants market recent developments include region's investment in new airport infrastructure and fleet expansion. Additionally, the presence of major aircraft manufacturing hubs and a growing focus on improving aviation safety and efficiency further support the market's expansion in Asia Pacific. The region's strategic importance in global aviation, coupled with increasing international and domestic flights, continues to drive its dominance in the market.

**Competitive Landscape:** Some of the major market players in the aviation lubricants industry include Aerospace Lubricants Inc., Eastman Chemical Company, Exxon Mobil Corporation, Whitmore Manufacturing LLC, Lanxess AG, Lukoil, Nycor, Nye Lubricants Inc. (Fuchs Petrolub SE), Rocol (Illinois Tool Works Inc.), Royal Dutch Shell plc, Tecsia Lubricants Pte Ltd and The Chemours Company, among many others.

**Challenges and Opportunities:** The aviation lubricants market faces challenges including stringent regulatory standards and the high cost of advanced lubricants. Compliance with evolving environmental regulations and the need for continuous innovation to meet performance requirements can be demanding. However, these challenges present. Companies have the chance to develop cutting-edge, eco-friendly lubricants and invest in research and development to address regulatory and performance issues. The growing focus on sustainable

aviation practices and fuel efficiency offers significant potential for new product development and market expansion. Additionally, emerging markets and the modernization of aging aircraft fleets are some of the aviation lubricants market recent opportunities that expand market reach and enhance product offerings.

## Aviation Lubricants Market Trends:

### Shift Toward Synthetic and High-Performance Lubricants

One of the prominent trends in the aviation lubricants market is the increasing preference for synthetic and high-performance lubricants. These lubricants are designed to withstand extreme temperatures, high pressures, and severe operational conditions, providing superior protection and efficiency compared to traditional mineral-based lubricants. The transition to synthetic lubricants is driven by their enhanced thermal stability, reduced friction, and extended drain intervals, which contribute to better engine performance and lower maintenance costs. According to the Tribology and Lubrication Engineering Society, at 3.5 million tons annually, synthetics represent 10.5% of the total lubricants market. This aviation lubricants market forecast aligns with the broader industry push toward advanced materials and technologies that support more efficient and reliable aircraft operations. Additionally, the increasing emphasis on reducing environmental impact has led to the development of eco-friendly synthetic lubricants that offer lower emissions and reduced ecological footprints.

### Emphasis on Sustainability and Eco-Friendly Solutions

The aviation lubricants market is witnessing a significant shift toward sustainability and eco-friendly solutions. As the aviation industry faces increasing pressure to reduce its environmental footprint, there is a growing demand for lubricants that minimize ecological impact. This includes the development of biodegradable and low-toxicity lubricants that align with global environmental regulations and sustainability goals. For instance, the European Union's European Aviation Safety Agency (EASA) has set guidelines that encourage the use of lubricants with reduced environmental impact, which is reflected in the increasing availability of such products in the market. It has mandated a target of 2% Sustainable Aviation Fuels (SAF) production in European aviation by 2025, rising to 6% by 2030, and up to 70% by 2050. Companies are investing in research and development to create lubricants that meet these stringent environmental standards while maintaining high performance. This trend is driven by regulatory requirements and consumer demand for greener aviation practices,

positioning sustainability as a central theme in the future of aviation lubricants.

### Integration of Digital Technologies and Smart Lubricants

The integration of digital technologies into aviation lubricants is emerging as a key trend, with smart lubricants becoming increasingly prevalent. These advanced lubricants are designed with embedded sensors or smart additives that provide real-time data on lubricant performance, engine condition, and operational parameters. This technological advancement enables predictive maintenance, allowing for timely interventions and reducing the risk of unexpected failures. According to a report from the International Air Transport Association (IATA), the global airline spend on maintenance was about \$82B with an airline average maintenance cost for IATA surveyed airlines of \$378M per airline. The incorporation of digital technologies into lubricants reflects the broader trend of digital transformation in aviation, enhancing safety, efficiency, and cost-effectiveness. This trend supports better management of lubricant usage and contributes to the overall advancement of aircraft maintenance and performance monitoring, thus creating a positive aviation lubricants market outlook.

### Aviation Lubricants Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on type, technology, platform, and end user.

#### Breakup by Type:

Hydraulic Fluid

Engine Oil

Grease

Special Lubricants and Additives

Engine oil accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the type. This includes hydraulic fluid, engine oil, grease, and special lubricants and

additives. According to the report, engine oil represented the largest segment.

Engine oil is the largest segment by type in the aviation lubricants market due to its critical role in ensuring optimal engine performance and longevity. Engine oils are essential for lubricating internal engine components, reducing friction, and dissipating heat, which is crucial for maintaining engine efficiency and reliability. The high demand for engine oils is driven by the increasing number of aircraft in service and advancements in engine technology that require specialized lubricants. Using good engine oils is an important factor. This underscores the importance of engine oils in the aviation industry, thereby generating a favorable aviation lubricants market revenue.

#### Breakup by Technology:

Mineral-based

Synthetic

Synthetic holds the largest share of the industry

A detailed breakup and analysis of the market based on the technology have also been provided in the report. This includes mineral-based and synthetic. According to the report, synthetic accounted for the largest market share.

Synthetic lubricants are the largest segment by technology in the aviation lubricants market due to their superior performance characteristics and adaptability to extreme conditions. Unlike traditional mineral-based lubricants, synthetic lubricants offer enhanced thermal stability, oxidation resistance, and reduced friction, which are crucial for modern high-performance engines. This results in longer intervals between oil changes and better engine protection. According to Tribology and Lubrication engineering society, synthetic and part-synthetic lubricants are now used in more than 70 different applications. The advanced properties of synthetic lubricants also align with stringent industry regulations and the growing demand for more reliable and efficient aviation technologies, driving their dominance in the market.

#### Breakup by Platform:

Commercial Aviation

Military Aviation

Business and General Aviation

Commercial aviation represents the leading market segment

The report has provided a detailed breakup and analysis of the market based on the platform. This includes commercial aviation, military aviation, and business and general aviation. According to the report, commercial aviation represented the largest segment.

Commercial aviation is the largest segment by platform in the aviation lubricants market due to its substantial contribution to global air travel and the high operational demands placed on commercial aircraft. The rapid growth in passenger air traffic and the rapid expansion of airline fleets drive significant demand for aviation lubricants to ensure engine performance, safety, and reliability. According to the International Air Transport Association (IATA), global passenger traffic is expected to increase by 3.4% annually over the year 2040, fueling the need for continuous maintenance and lubrication of commercial aircraft. The sheer volume of commercial flights and the necessity for regular maintenance and engine care make commercial aviation the dominant segment in the aviation lubricants market.

Breakup by End User:

OEM

Aftermarket

Aftermarket exhibits a clear dominance in the market

A detailed breakup and analysis of the market based on the end user have also been provided in the report. This includes OEM and aftermarket. According to the report, aftermarket accounted for the largest market share.

As per the aviation lubricants market overview, the aftermarket represents the largest segment in the aviation lubricants market due to the extensive need for maintenance, repair, and overhaul (MRO) services across existing aircraft fleets. As aircraft age, they require more frequent servicing and replacement of lubricants to ensure continued

performance and compliance with safety regulations. This ongoing maintenance is critical for extending the operational life of aircraft and preventing costly downtimes. The growing fleet of aging aircraft and the need for reliable, high-performance lubricants in MRO activities drive the dominance of the aftermarket segment in the aviation lubricants market.

#### 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

Asia Pacific leads the market, accounting for the largest aviation lubricants market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest regional market for aviation lubricants.

Asia Pacific is the largest segment by region in the aviation lubricants market due to rapid growth in air travel and significant investments in aviation infrastructure across the region. Countries such as China and India are expanding their airport capacities and increasing their aircraft fleets to meet the rising demand for both domestic and international flights. The region's strong economic growth and increasing middle-class population further drive air travel expansion. According to International Air Transport Association (IATA), routes to, from and within Asia-Pacific will see an extra 2.35 billion annual passengers by 2037, for a total market size of 3.9 billion passengers. Its CAGR of 4.8% is the highest, followed by Africa and the Middle East, Asia Pacific is projected to account for over 40% of the world's passenger traffic by 2030. This substantial growth in air traffic fuels the demand for aviation lubricants, making Asia Pacific the



dominant regional market in the industry.

#### Competitive Landscape:

The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the major market players in the aviation lubricants industry include Aerospace Lubricants Inc., Eastman Chemical Company, Exxon Mobil Corporation, Whitmore Manufacturing LLC, Lanxess AG, Lukoil, Nyco, Nye Lubricants Inc. (Fuchs Petrolub SE), Rocol (Illinois Tool Works Inc.), Royal Dutch Shell plc, Tecsia Lubricants Pte Ltd and The Chemours Company.

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

The competitive landscape of the aviation lubricants market is characterized by a mix of established multinational corporations and innovative specialty companies. Major aviation lubricants companies, including ExxonMobil, Chevron, and BP, dominate the market with their extensive product portfolios and global reach. These companies leverage their vast resources to invest in research and development, ensuring they offer cutting-edge, high-performance lubricants. Meanwhile, niche players focus on developing specialized products tailored to emerging technological advancements and sustainability trends. For instance, in 2024, Shell Aviation introduced its new “Shell Flight” synthetic lubricant, designed to enhance engine efficiency, and reduce environmental impact, reflecting the industry's shift toward eco-friendly solutions. This strategic move underscores the growing emphasis on innovation and sustainability within the competitive landscape.

#### Aviation Lubricants Market News:

In July 2023, Shell becomes one of the first aviation lubricants suppliers to tackle lifecycle carbon emissions across its product portfolio. It has introduced a new lifecycle sustainability approach for its AeroShell aviation lubricants to avoid, reduce, and then compensate for lifecycle carbon emissions, improving aircraft performance while helping customers meet their net-zero greenhouse

gas (GHG)<sup>1</sup> or carbon emissions ambitions.

### Key Questions Answered in This Report

1. What was the size of the global aviation lubricants market in 2023?
2. What is the expected growth rate of the global aviation lubricants market during 2024-2032?
3. What has been the impact of COVID-19 on the global aviation lubricants market?
4. What are the key factors driving the global aviation lubricants market?
5. What is the breakup of the global aviation lubricants market based on the type?
6. What is the breakup of the global aviation lubricants market based on the technology?
7. What is the breakup of the global aviation lubricants market based on the platform?
8. What is the breakup of the global aviation lubricants market based on the end user?
9. What are the key regions in the global aviation lubricants market?
10. Who are the key players/companies in the global aviation lubricants market?

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