

Middle East & Africa Biolubricants Market Forecast to 2028 – COVID-19 Impact and Regional Analysis– by Base Oil (Vegetable Oils, Animal Fats, and Others), Application (Gear Oils, Hydraulic Oils, Metalworking Fluids, Greases, and Others), and End Use (Automotive, Industrial, Marine, Agriculture & Forestry, and Others)

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Abstracts

The Middle East & Africa biolubricants market is expected to grow from US\$ 33.80 million in 2022 to US\$ 38.64 million by 2028. It is estimated to register a CAGR of 2.3% from 2022 to 2028.

Rising Research and Development to Enhance Performance of Biolubricants Drives Middle East & Africa Biolubricants Market

Compared to mineral oils, biolubricants show a significant degree of biodegradability, a lower amount of toxicity, higher viscosity indices, higher flash points, and better adherence to metal; however, they suffer from lower pour points and oxidative stability. The increasing attention toward sustainability and environmental concerns has driven the substitution of mineral oils with biolubricants. Research & development is being done on biolubricants for effective lubrication with superior tribological performance under a wide range of operating conditions and contact geometries. To take advantage of the high viscosities, biodegradability, and flash points, much of the research has attempted to improve the weaknesses of the vegetable oil base, i.e., the thermal and oxidative stabilities through chemical modification or additives. The inherent unsaturation in plant oils makes them perform poorly in extreme temperatures. To overcome this, chemical modification such as epoxidation of the double bonds has been

used. Most additives are common in mineral and plant oils. However, due to the toxicity of currently used additives, research is required to develop and use alternate bio-based additives. Sensitive environments such as marine and forestry and the push for safe and sustainable lubricants drive research & development for improved bio-based lubricants. Various manufacturers are launching products made from recovered raw materials, which helps them reduce raw material costs. In October 2019, NextChem, a Maire Tecnimont subsidiary, launched a project with SO.G.I.S. for the recovery of residual fats to produce oleic acid, an intermediate product used for biolubricants production. These biolubricants are suitable to be used in naval transport due to their biodegradability and biocompatibility and suitable to be used in severe environmental conditions, such as in aeronautical systems, due to their fluid dynamic properties at low and very low temperatures. Thus, launching such innovative projects and increased research & development to enhance the performance of biolubricants would boost the Middle East and Africa biolubricants market growth over the coming years.

Middle East & Africa Biolubricants Market Overview

The Middle East & Africa biolubricants market growth is attributed to the high demand for biolubricants from industries such as oil & gas, automotive, and marine. The growing automotive sales in South Africa and Saudi Arabia are creating a significant demand for biolubricants. Biolubricants are used in manufacturing different vehicle components. Further, the strong presence of the oil & gas sector in Middle Eastern countries, such as Saudi Arabia, Iraq, the UAE, Iran, and Kuwait, creates a huge demand for biolubricants. The biolubricants market is also driven by local regulations in the region, which helps reduce carbon emissions by lowering the greenhouse effect. The demand for vehicles made in the Middle East & Africa is growing consistently. These biolubricants offer outstanding performance, increase machine life, and lower maintenance costs. Rising middle-class income, increasing population, and the total increase in passenger vehicle production are among the other factors driving the biolubricants market in the region.

Middle East & Africa Biolubricants Market Revenue and Forecast to 2028 (US\$ Million)

Middle East & Africa Biolubricants Market Segmentation

The Middle East & Africa biolubricants market is divided into base oil, application, end use, and country.

Based on base oil, the Middle East & Africa biolubricants market is segmented into vegetable oils, animal fats, and others. The vegetable oils segment held the largest

Middle East & Africa biolubricants market share in 2022.

Based on application, the Middle East & Africa biolubricants market is segmented into gear oils, hydraulic oils, metalworking fluids, greases, and others. The hydraulic oils segment held the largest Middle East & Africa biolubricants market share in 2022.

Based on end use, the Middle East & Africa biolubricants market is segmented into automotive, industrial, marine, agriculture & forestry, and others. The industrial segment held the largest Middle East & Africa biolubricants market share in 2022.

Based on country, the Middle East & Africa biolubricants market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of Middle East & Africa. Saudi Arabia dominated the Middle East & Africa biolubricants market in 2022.

Carl Bechem GmbH, Fuchs Petrolub SE, Kluber Lubrication GmbH & Co KG, Shell Plc, and TotalEnergies SE are among the leading companies operating in the Middle East & Africa biolubricants market.

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