

Biolubricants - A Global Market Overview

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Abstracts

Global plant-based lubricants industry, in particular, is as yet in a nascent stage, though emergent regulatory impacts on lubricants offer the potential for increasing the consumption of biolubricants over the coming decade. Regulatory actions from the United States government have already specified a minimum renewable content for a range of product categories, with the US Air Force also coming forward in supporting the use of plant-derived bio-based products as a fundamental and strategic approach to national security.

Chemical registration policies in the European Union, the United States and China would also play a crucial role in incentivizing greater adoption of biolubricants. Legislations related to emissions and the constantly increasing oil change intervals that reduce unit volumes could be viewed as challenges and restraints for the biolubricants market. While the historic price levels of refined vegetable oils have been considerably higher compared to traditional petroleum base stocks, the recent years have witnessed a narrowing down of this price differential. This trend augurs well for the future, when price increases in petroleum base oils would become a significant driver that would increase the cost competitiveness of vegetable-based base oils in the formulation of lubricants.

Worldwide market for Biolubricant product categories explored in this study includes Hydraulic Fluids, Metalworking Fluids, Chainsaw Lubricants, Mold Release Agents, Gear Oils, Two-Stroke Engine Oils and Greases. The report also focuses on end-use markets for biolubricants comprising Automotive & Transportation, Commercial/Industrial and Others. The global markets for the above mentioned product categories and end-use applications are analyzed in both value in USD and the volumes in pounds (lbs). Global volume consumption of Biolubricants, estimated at 1.3 million pounds in 2013, valued at about US\$2 billion, and forecast at 1.4 million pounds (US\$2.1 billion) in 2014, is further expected to maintain a CAGR of 5.5% between 2010

and 2020 to reach a projected 1.9 million pounds, of value US\$3 billion, by 2020.

This report reviews, analyses and projects the biolubricants market for global and the regional markets including North America, Europe, Asia-Pacific and Rest of World. The regional markets further analyzed for 12 independent countries across North America – The United States and Canada; Europe – Germany, Scandinavia, Italy, Benelux, Switzerland and Austria; Asia-Pacific –China, Japan, India and South Korea.

The study includes 347 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. This report profiles 32 key global players and 46 major players across North America – 23; Europe – 20; and Asia-Pacific – 3. The research also provides the listing of the companies engaged in manufacturing and supply of biolubricants. The global list of companies covers addresses, contact numbers and the website addresses of 65 companies.

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Aarhuskarlshamn AB
Albemarle Corporation
Bioblend Renewable Resources, LLC
Biona Jers?n, s.r.o.
BP Marine Limited
BP P.L.C.
Carl Bechem GmbH
Clarion Lubricants
DSI Ventures, Inc.
Emery Oleochemicals Group
Environmental Lubricants Manufacturing, Inc.
Exxon Mobil Corporation
Fuchs Petrolub AG
Gemtek® Products, LLC
Green Earth Technologies, Inc.
Houghton International Inc.
IGOL France
KI?ber Lubrication M?nchen Se & Co. Kg
Maryn International Ltd.
Miller Oils Ltd.
Neatsfoot Oil Refineries Corporation
Novvi SA
Opet Fuchs Madeni Ya? Sanayi Ve Ticaret A.?.
Pacific Bio Lubricants Ltd.
Panolin AG/Panolin International Inc.
Renewable Lubricants Inc.
Rhein Chemie Rheinau GmbH
Terresolve Technologies, Ltd.
The Hill and Griffith Company
TOTAL S.A.
United Bio Lube
W?rtsil? Corporation

3. KEY BUSINESS TRENDS

Clarion Releases Two Novel Green Lubricants
Elevance Introduces its Latest Developments in Renewable Synthetic Lubricant

Basestocks

Launch of LUBECO™ Biolubricants at WoodEXPO 2013 in Australia and New Zealand

EU Ecolabel Certification for KI?berbio Lubes

Mass Production of Biosynthetic Motor Oil by Biosynthetic Technologies

ExxonMobil Launches its Novel Mobil SHC Aware Family

Oil Change Services in Spokane WA Provides Enhanced Fuel Efficiency for Vehicles

Launch of Emery Oleochemicals' High Performance Biolubricant Solutions at the

Largest International Exhibition for the Lubricant Industry in China

Release of VGP by the US EPA

Environmental Certification Received by Sinopec

Novel Procurement Preferences for Bio-based Engine Oils Revised by USDA

Biodegradable and Environmentally Acceptable Lubricants for Global Fleet Protection

Development of Environmentally Safe Biolubricants for Use in Agriculture

Cuba's Research to Produce Waste-based Biolubricants

Emery Oleochemicals Plans to Unveil its Natural-Based Bio-Lubricant Solutions at STLE

Controlling Stake in Terresolve Technologies Acquired by Blumenthal Holdings

Commercial Launch of Novel Smart Earth EcoLube Lubricant in Canada

KI?ber Lubrication to Demonstrate its Latest Lubrication Solutions at MINExpo INTERNATIONAL 2012

Coconut Oil Officially Approved as an Engine Lubricant

Castrol Introduces the Product Line of Performance Biolubes

Castrol Debuts Novel Performance Biolubes

Reinvestment at Bromborough Site by Aeternum Capital

Commercial Release of ECO Ultra® CNG and Green Earth Brand Products in the US

Total and Amyris Broaden their R&D Alliance to Develop Renewable Fuels

Amyris Launches its Novel Product Line of Industrial Lubricants in California

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 - Biosynthetic Technologies (United States)
 - Clarion Lubricants (United States)
 - Desilube Technology, Inc. (United States)
 - Dsi Ventures, Inc. (United States)
 - Environmental Lubricants Manufacturing, Inc. (United States)
 - Exxon Mobil Corporation (United States)
 - Gemtek® Products, Llc (United States)
 - Green Earth Technologies, Inc. (United States)

Houghton International Inc. (United States)
Maryn International Ltd. (Canada)
Neatsfoot Oil Refineries Corporation (United States)
Novvi SA (United States)
Polnox Corporation (United States)
Renewable Lubricants Inc. (United States)
Rsc Bio Solutions, Llc (United States)
Rydol Products Inc. (United States)
Smart Earth Lubricants (Canada)
Terresolve Technologies, Ltd. (United States)
The Hill and Griffith Company (United States)
Unist, Inc. (United States)
United Bio Lube (United States)

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Binol Biolubricants (Sweden)
Benjn R. Vickers & Sons Ltd. (United Kingdom)
Biona Jers?n, s.r.o. (Czech Republic)
BP P.L.C. (United Kingdom)
Castrol Industrial North America Inc. (United States)
BP Marine Limited (United Kingdom)
Carl Bechem Gmbh (Germany)
Fuchs Petrolub AG (Germany)
IGOL France (France)
Kajo Chemie GmbH (Germany)
KI?ber Lubrication M?nchen Se & Co. KG (Germany)
Miller Oils Ltd. (United Kingdom)
Opet Fuchs Madeni Yag Sanayi Ve Ticaret A.S. (Turkey)
Panolin AG / Panolin International Inc. (Switzerland)
Rhein Chemie Rheinau GmbH (Germany)
Rowe Mineral?lwerk GmbH (Germany)
Total S.A. (France)
Total Lubrifiants S.A. (France)
W?rtsil? Corporation (Finland)

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Table 1: The Key Growth Drivers and Restraints of Biolubricants

About

Consumption of Biolubricant Hydraulic Fluids worldwide is estimated at xxx.x thousand pounds in 2013 and forecast to be xxx.x thousand pounds in 2014. Expected to maintain a CAGR of x.x% between 2010 and 2020, the global Biolubricant Hydraulic Fluids consumption is further projected to reach in excess of x million pounds by 2020. North America is the largest consumer of Biolubricant Hydraulic Fluids, with an estimated 2013 share of xx% or xxx.x thousand pounds. Forecast to be xxx.x thousand pounds in 2014, North American consumption of Biolubricant Hydraulic Fluids is further anticipated to record the fastest CAGR of x.x% between 2010 and 2020 to reach a projected xxx.x thousand pounds by 2020. At the other end, European consumption of Biolubricant Hydraulic Fluids, estimated at xxx.x thousand pounds in 2013 and forecast to be xxx thousand pounds in 2014, is expected to witness the slowest 2010-2020 CAGR of x.x% in reaching a projected xxx thousand pounds by 2020. Asia-Pacific is anticipated to be the other fast growing market for volume of Biolubricant Hydraulic Fluids consumed, with the likelihood of posting a compounded annual rate of about x% over the similar period.

The United States forms the largest volume consumer of Biolubricants in North America, with an estimated 2013 share of xx.x% equating to xxx.x thousand pounds. Forecast to be xxx.x thousand pounds in 2014, consumption of Biolubricants in the United States is further expected to register a CAGR of x% between 2010 and 2020 to reach a projected xxx.x thousand pounds by 2020. Canada is likely to emerge as the slower growing North American volume market for Biolubricants, reaching a projected xx.x thousand pounds by 2020 from an estimated xx thousand pounds in 2013 and a forecast xx.x thousand pounds in 2014 by sustaining a 2010-2020 CAGR of x.x%.

By category, Europe's Biolubricants volume market is dominated by Biolubricant Hydraulic Fluids, which is estimated at xxx.x thousand pounds in 2013 for a share of xx.x%. Consumption of Biolubricant Hydraulic Fluids in the region is forecast to be xxx thousand pounds in 2014 and further anticipated as posting the fastest 2010-2020 CAGR of x.x% in reaching a projected xxx thousand pounds by 2020. At the opposite end, European volume consumption of Biolubricant Greases is likely to exhibit the slowest CAGR of x.x% between 2010 and 2020 in reaching a projected xx.x thousand pounds by 2020 from an estimated xx thousand pounds in 2013 and a forecast xx.x thousand pounds in 2014.

Chinese volume consumption of Biolubricants, estimated at xxx thousand pounds in

2013 and forecast to be xxx thousand pounds in 2014, is further expected to maintain a CAGR of xx% between 2010 and 2020 to reach a projected xxx thousand pounds by 2020. In terms of value demand, the market for Biolubricants in China is slated to register a faster CAGR of x.x% over the same period in reaching a projected US\$xxx.x million by 2020 from an estimated US\$xxx.x million in 2013 and a forecast US\$xxx.x million in 2014.

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