World Lubricants

Industry Study with Forecasts for 2019 & 2024

Study #3364 | December 2015 | $6500 | 468 pages
Table of Contents

EXECUTIVE SUMMARY

NORTH AMERICA

Economic Overview ........................................... 90
Products & Markets ........................................... 92
Market Share .................................................. 95
United States ................................................... 96
Canada ............................................................ 105
Mexico .............................................................. 112

WESTERN EUROPE

Economic Overview ......................................... 120
Products & Markets .......................................... 122
Market Share .................................................. 125
Germany ......................................................... 127
France ............................................................. 134
Italy ................................................................. 141
United Kingdom .............................................. 149
Spain ................................................................. 157
Other Western Europe ...................................... 164
Netherlands ..................................................... 171
Belgium ............................................................ 172
All Other Western Europe ................................. 172

ASIA/PACIFIC

Economic Overview ......................................... 173
Products & Markets .......................................... 175
Market Share .................................................. 179
China ............................................................... 179
India ................................................................. 181
Japan ................................................................. 190
South Korea ..................................................... 199
Indonesia .......................................................... 207
Thailand ........................................................... 214
Taiwan .............................................................. 221
Australia .......................................................... 228
Other Asia/Pacific .............................................. 234
Malaysia ........................................................... 240
Philippines ........................................................ 246
All Other Asia/Pacific ......................................... 247

OTHER REGIONS

Central & South America .................................. 249
Economic Overview ......................................... 249
Products & Markets .......................................... 251
Market Share .................................................. 254
Brazil ................................................................. 255
Other Central & South America .......................... 264
Argentina .......................................................... 269
Venezuela .......................................................... 270
All Other Central & South America ...................... 271

Eastern Europe ................................................ 272
Economic Overview ......................................... 272
Products & Markets .......................................... 274
Market Share .................................................. 276
Russia ............................................................... 277
Poland ............................................................... 284
Other Eastern Europe ....................................... 289
Ukraine .............................................................. 294
All Other Eastern Europe .................................... 295

AfricA/Mideast .................................................. 296
Economic Overview ......................................... 296
Products & Markets .......................................... 298
Market Share .................................................. 301
Ireland ............................................................... 302
Turkey ............................................................... 308
Egypt ................................................................. 313
Saudi Arabia ..................................................... 319
Other Africa/Mideast ......................................... 324
South Africa ...................................................... 331
All Other Africa/Mideast .................................... 331

INDUSTRY STRUCTURE

General ............................................................. 333
Industry Composition ....................................... 334
Lubricant Market Share ...................................... 337
Competitive Strategies ....................................... 340
Merger & Acquisition Activity ........................... 343
Strategic Partnerships ........................................ 345
Refining & Blending .......................................... 353
Marketing & Distribution .................................... 355

COMPANY PROFILES

Ashland Incorporated ........................................ 358
BP plc ............................................................... 362
Chemetura Corporation ..................................... 368
Chevron Corporation ......................................... 370
Chevron Phillips Chemical .................................. 377
China National Petroleum ................................... 379
China Petroleum & Chemical ............................. 381
CPC Corporation ............................................... 383
Eni SpA .............................................................. 385
Exxon Mobil ..................................................... 387
FUCHS Petrolub ............................................... 393
Gazprom OAO .................................................. 399
Houghton International ...................................... 401
Idemitsu Kosan ................................................ 403
Indian Oil ........................................................ 406
JX Holdings ...................................................... 408
Lukoil Oil .......................................................... 411

(continued on following page)
Table of Contents

COMPANY PROFILES
(continued from previous page)

OMV AG..........................................................414
Perusahaan Pertambangan Minyak
Dan Gas Bumi Negara..........................416
Petróleo Brasileiro........................................418
Petróleos de Venezuela............................420
Petróleos Mexicanos...............................423
Petrolam Nasional Berhad.......................425
Petromin Corporation............................429
Phillips 66.................................................431
Repsol S.A.....................................................436
Rosneft Oil..................................................438
Royal Dutch Shell.................................439
SK Innovation.............................................448
Suncor Energy...........................................450
Total S.A.....................................................453
Ukrtransnafta PJSC.................................458
Yushiro Chemical Industry Company..........459
Other Companies Mentioned in Study...462-468

List of Tables

EXECUTIVE SUMMARY
1 Summary Table...................................3

MARKET ENVIRONMENT
1 World Population by Region..............7
2 World Gross Domestic
   Product by Region...............................12
3 World Manufacturing Value
   Added by Region..................................14
4 World Fixed Capital Investment
   by Region........................................16
5 World Motor Vehicle Park by Region....18
6 World Motor Vehicle Production
   by Region.........................................21
7 World Hybrid & Electric Vehicle
   Demand by Region..............................24
8 World Oil & Gas Production
   by Region.........................................33
9 Refined Petroleum Products Production.35

OVERVIEW
1 World Lubricant Demand by Region......45
2 World Lubricant Demand
   by Formulation..................................49
3 World Petroleum Lubricant
   Demand by Region............................52
4 World Nonconventional Lubricant
   Demand by Region............................54
5 World Lubricant Demand by Product.....59
6 World Engine Oil Demand by Region.....63
7 World Process Oil Demand by Region.....65
8 World Hydraulic Fluid
   Demand by Region.............................67
9 World Metalworking Fluid
   Demand by Region..............................70
10 World Other Lubricants
    Demand by Region............................73
11 World Lubricant Demand by Market.....74
12 World Motor Vehicle Aftermarket
   Lubricant Demand..............................77
13 Light Vehicle Aftermarket
   Lubricant Demand................................79
14 Medium & Heavy Trucks & Buses
   Aftermarket Lubricant Demand...............80
15 World Manufacturing
   Lubricant Demand...............................83
16 World Other Markets Lubricant Demand 85
17 World Base Oil Demand......................87

NORTH AMERICA
1 North America: Key Indicators
   for Lubricants........................................91
2 North America: Lubricant Demand.......94
3 United States: Key Indicators
   for Lubricants.......................................98
4 United States: Lubricant
   Demand by Product & Formulation.........101
5 United States: Lubricant
   Demand by Market................................104
6 Canada: Key Indicators for Lubricants..107
7 Canada: Lubricant Demand
   by Product & Formulation....................109
8 Canada: Lubricant Demand by Market.111
9 Mexico: Key Indicators for Lubricants..114
10 Mexico: Lubricant Demand
   by Product & Formulation....................116
11 Mexico: Lubricant Demand by Market..118

WESTERN EUROPE
1 Western Europe: Key Indicators
   for Lubricants.......................................122
2 Western Europe: Lubricant Demand....124
3 Germany: Key Indicators
   for Lubricants......................................128
4 Germany: Lubricant Demand
   by Product & Formulation....................130
5 Germany: Lubricant
   Demand by Market..............................133
6 France: Key Indicators for Lubricants...136
7 France: Lubricant Demand
   by Product & Formulation....................138
8 France: Lubricant Demand by Market..140
9 Italy: Key Indicators for Lubricants......143
10 Italy: Lubricant Demand
   by Product & Formulation....................146
11 Italy: Lubricant Demand by Market.....148
12 United Kingdom: Key Indicators
   for Lubricants.....................................151
13 United Kingdom: Lubricant Demand
   by Product & Formulation....................154
14 United Kingdom: Lubricant
   Demand by Market..............................156
15 Spain: Key Indicators for Lubricants....159
16 Spain: Lubricant Demand
   by Product & Formulation....................161
17 Spain: Lubricant Demand by Market.....163
18 Other Western Europe: Key
   Indicators for Lubricants.....................166
19 Other Western Europe: Lubricant
   Demand.............................................169
20 Other Western Europe: Lubricant
   Demand by Country.............................171

ASIA/PACIFIC
1 Asia/Pacific: Key Indicators
   for Lubricants.......................................175
2 Asia/Pacific: Lubricant Demand........178
3 China: Key Indicators for Lubricants....183
4 China: Lubricant Demand
   by Product & Formulation....................186
5 China: Lubricant Demand by Market.....189
6 India: Key Indicators for Lubricants.....192
7 India: Lubricant Demand
   by Product & Formulation....................195
8 India: Lubricant Demand by Market.....198
9 Japan: Key Indicators for Lubricants....201
10 Japan: Lubricant Demand
   by Product & Formulation....................203
11 Japan: Lubricant Demand by Market....206
12 South Korea: Key Indicators
   for Lubricants.....................................208
13 South Korea: Lubricant Demand
   by Product & Formulation....................211
14 South Korea: Lubricant
   Demand by Market..............................213
15 Indonesia: Key Indicators
   for Lubricants....................................216

(continued on following page)

Click here to purchase online
## List of Tables

(continued from previous page)

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Indonesia: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>17</td>
<td>Indonesia: Lubricant Demand by Market</td>
</tr>
<tr>
<td>18</td>
<td>Thailand: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>19</td>
<td>Thailand: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>20</td>
<td>Thailand: Lubricant Demand by Market</td>
</tr>
<tr>
<td>21</td>
<td>Taiwan: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>22</td>
<td>Taiwan: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>23</td>
<td>Taiwan: Lubricant Demand by Market</td>
</tr>
<tr>
<td>24</td>
<td>Australia: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>25</td>
<td>Australia: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>26</td>
<td>Australia: Lubricant Demand by Market</td>
</tr>
<tr>
<td>27</td>
<td>Other Asia/Pacific: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>28</td>
<td>Other Asia/Pacific: Lubricant Demand</td>
</tr>
<tr>
<td>29</td>
<td>Other Asia/Pacific: Lubricant Demand by Country</td>
</tr>
</tbody>
</table>

## OTHER REGIONS

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Central &amp; South America: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>2</td>
<td>Central &amp; South America: Lubricant Demand</td>
</tr>
<tr>
<td>3</td>
<td>Brazil: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>4</td>
<td>Brazil: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>5</td>
<td>Brazil: Lubricant Demand by Market</td>
</tr>
<tr>
<td>6</td>
<td>Other Central &amp; South America: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>7</td>
<td>Other Central &amp; South America: Lubricant Demand</td>
</tr>
<tr>
<td>8</td>
<td>Other Central &amp; South America: Lubricant Demand by Country</td>
</tr>
<tr>
<td>9</td>
<td>Eastern Europe: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>10</td>
<td>Eastern Europe: Lubricant Demand</td>
</tr>
<tr>
<td>11</td>
<td>Russia: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>12</td>
<td>Russia: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>13</td>
<td>Russia: Lubricant Demand by Market</td>
</tr>
<tr>
<td>14</td>
<td>Poland: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>15</td>
<td>Poland: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>16</td>
<td>Poland: Lubricant Demand by Market</td>
</tr>
<tr>
<td>17</td>
<td>Other Eastern Europe: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>18</td>
<td>Other Eastern Europe: Lubricant Demand by Product</td>
</tr>
<tr>
<td>19</td>
<td>Other Eastern Europe: Lubricant Demand by Market &amp; Country</td>
</tr>
<tr>
<td>20</td>
<td>Africa/Mideast: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>21</td>
<td>Africa/Mideast: Lubricant Demand</td>
</tr>
<tr>
<td>22</td>
<td>Iran: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>23</td>
<td>Iran: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>24</td>
<td>Iran: Lubricant Demand by Market</td>
</tr>
<tr>
<td>25</td>
<td>Turkey: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>26</td>
<td>Turkey: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>27</td>
<td>Turkey: Lubricant Demand by Market</td>
</tr>
<tr>
<td>28</td>
<td>Egypt: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>29</td>
<td>Egypt: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>30</td>
<td>Egypt: Lubricant Demand by Market</td>
</tr>
<tr>
<td>31</td>
<td>Saudi Arabia: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>32</td>
<td>Saudi Arabia: Lubricant Demand by Product &amp; Formulation</td>
</tr>
<tr>
<td>33</td>
<td>Saudi Arabia: Lubricant Demand by Market</td>
</tr>
<tr>
<td>34</td>
<td>Other Africa/Mideast: Key Indicators for Lubricants</td>
</tr>
<tr>
<td>35</td>
<td>Other Africa/Mideast: Lubricant Demand</td>
</tr>
<tr>
<td>36</td>
<td>Other Africa/Mideast: Lubricant Demand by Country</td>
</tr>
</tbody>
</table>

## INDUSTRY STRUCTURE

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>World Lubricant Sales by Company, 2014</td>
</tr>
<tr>
<td>2</td>
<td>Selected Acquisitions &amp; Divestitures</td>
</tr>
<tr>
<td>3</td>
<td>Selected Cooperative Agreements</td>
</tr>
</tbody>
</table>

## List of Charts

### MARKET ENVIRONMENT

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>World Motor Vehicle Park by Region, 2004-2024</td>
</tr>
<tr>
<td>2</td>
<td>World Motor Vehicle Production by Region, 2004-2024</td>
</tr>
</tbody>
</table>

### OVERVIEW

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>World Lubricant Demand by Region, 2004-2024</td>
</tr>
</tbody>
</table>

## NORTH AMERICA

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>North America: Lubricant Demand by Country, 2014</td>
</tr>
<tr>
<td>2</td>
<td>North America: Lubricant Market Share by Company, 2014</td>
</tr>
</tbody>
</table>

## WESTERN EUROPE

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Western Europe: Lubricant Demand by Country, 2014</td>
</tr>
<tr>
<td>2</td>
<td>Western Europe: Lubricant Market Share by Company, 2014</td>
</tr>
</tbody>
</table>

## ASIA/PACIFIC

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Asia/Pacific: Lubricant Demand by Country, 2014</td>
</tr>
<tr>
<td>2</td>
<td>Asia/Pacific: Lubricant Market Share by Company, 2014</td>
</tr>
</tbody>
</table>

## OTHER REGIONS

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Central &amp; South America: Lubricant Demand by Country, 2014</td>
</tr>
<tr>
<td>2</td>
<td>Central &amp; South America: Lubricant Market Share by Company, 2014</td>
</tr>
<tr>
<td>3</td>
<td>Eastern Europe: Lubricant Demand by Country, 2014</td>
</tr>
<tr>
<td>4</td>
<td>Eastern Europe: Lubricant Market Share by Company, 2014</td>
</tr>
<tr>
<td>5</td>
<td>Africa/Mideast: Lubricant Demand by Country, 2014</td>
</tr>
<tr>
<td>6</td>
<td>Africa/Mideast: Lubricant Market Share by Company, 2014</td>
</tr>
</tbody>
</table>

## INDUSTRY STRUCTURE

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>World Lubricant Market Share by Company, 2014</td>
</tr>
</tbody>
</table>
Growth in lubricant demand will be driven by continued economic growth, rising manufacturing output, and increasing motor vehicle production and ownership rates in developing countries.

World demand to rise 2% annually through 2019

World demand for lubricants is projected to rise 2.0 percent annually to 45.4 million metric tons in 2019. The fastest gains are expected in the Asia/Pacific region, where an expanding number of motor vehicles in use and continued industrialization in large countries such as China and India will support rising demand. Developing regions such as Central and South America and the Africa/Mideast region will also exhibit healthy gains in response to economic growth, rising manufacturing output, and increasing motor vehicle production and ownership rates.

More mature markets, such as the United States, Western Europe, and Japan, are expected to stay fairly flat, as the greater availability of premium lubricant products with longer drain intervals will restrain growth. Additionally, many of these developed countries enforce strict regulations on the use and disposal of lubricants, which will drive demand for nonconventional lubricants, such as more environmentally friendly bio-based lubricants and lubricants derived from re-refined base oils.

Manufacturing to be fastest growing market

The motor vehicle aftermarket will remain the largest end use for lubricants; however, as drain intervals lengthen and as electric vehicle ownership rates increase in developed nations, growth will trail the other major markets for lubricants. Demand in the manufacturing market will post faster gains as manufacturing output expands, particularly in developing regions. In addition, quality will continue to improve as manufacturers increasingly demand lubricants that are effective in a wider range of operating conditions. In the remaining markets, lubricant demand is also expected to rise at an above-average pace. Growth will be supported by factors such as increasing mechanization in agriculture, construction, mining, and other industries in developing regions; increased oil and gas production; and greater use of non-motor vehicle transportation such as marine and railroad transport in response to improved economic conditions.

Process oils to be fastest growing product category

Process oils are expected to be the fastest growing product category, supported by gains in manufacturing output, particularly in the Asia/Pacific and other industrializing regions. Additionally, process oils are less strongly impacted by the introduction of higher quality products. Because process oils are often a component of a finished manufactured product, it is difficult to reduce their volume usage, even as quality improves, due to increasingly stringent performance requirements. Demand for hydraulic fluids, metalworking fluids, and other lubricants will also benefit from an improving economy.
Sample Text, Table & Chart

### OTHER REGIONS

**Iran: Markets** -- Demand for lubricants in Iran is expected to grow 3.2 percent per year to 725,000 metric tons in 2019. Gains will be healthy as advances in motor vehicle aftermarket demand override the relatively slow pace of economic and manufacturing growth. Manufacturing lubricant demand in Iran will continue to lag the country’s manufacturing sector as government-imposed sanctions will continue to impact economic sanctions on the country’s oil industry and the resultant effects on the broader economy.

Motor vehicle aftermarket use forms the largest market for lubricants in Iran. Low average lubricant quality contributes to short drain intervals, thus increasing the volume of lubricants consumed per vehicle. Although the recent rapid increases in vehicle ownership have led to the motor vehicle park being made up of an increasing number of newer vehicles, economic sanctions and a lack of foreign investment have prevented an accompanying rise in lubricant quality. This situation will persist through the forecast period and result in motor vehicle lubricant use continuing to grow at a rapid pace.

Motor vehicle production is a large contributor to manufacturing lubricant consumption in Iran. Following declines between 2009 and 2014, rapid growth in the country’s automotive industry is expected to resume, driving future demand for lubricants. Accelerated output from Iran’s other manufacturing sectors will also support gains. Although a number of other markets are significant consumers of lubricants, demand in these markets is tied most strongly to the oil and natural gas sectors. While Iran holds among the world’s largest reserves of natural crude oil, most of its oilfields are quite old at this point, and the country’s ability to export oil has been crippled by sanctions.

#### Table V-4

**Germany: Lubricant Demand by Product & Formulation** (thousand metric tons)

<table>
<thead>
<tr>
<th>Item</th>
<th>2004</th>
<th>2009</th>
<th>2014</th>
<th>2019</th>
<th>2024</th>
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<td>5250</td>
<td>4980</td>
<td>4880</td>
<td>4860</td>
<td>4900</td>
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<tr>
<td>% Germany</td>
<td>21.7%</td>
<td>22.2%</td>
<td>23.4%</td>
<td>23.0%</td>
<td>22.9%</td>
</tr>
<tr>
<td>Germany Lubricant Demand</td>
<td>1140</td>
<td>1105</td>
<td>1140</td>
<td>1120</td>
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<td>By Product:</td>
<td></td>
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<td>Process Oils</td>
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<td>Hydraulic Fluids</td>
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<td>Metalworking Fluids</td>
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<td>75</td>
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<td>Other Products</td>
<td>345</td>
<td>345</td>
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<td>By Formulation:</td>
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<td>410</td>
<td>435</td>
<td>480</td>
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</table>

Source: The Freedonia Group, Inc.

#### Chart VIII-1

**World Lubricant Market Share by Company**

(41.1 million metric tons, 2014)

- Market Leaders: 49.9%
- Others: 50.1%
Sample Profile & Table, & Study Coverage

COMPANY PROFILES

Eni SpA
1, piazzale Enrico Mattei
00144 Rome
Italy
39-06-59-821
www.eni.it

Sales: $145.7 billion (2014)
Geographic Sales: (2014, as percent of total) Italy 27%, Other European Union Countries 27%, Other European Countries 11%, Africa 11%, Americas 8%, Asia 15%, and Other Areas 1%
Employment: 84,410 (2014)
Key Products: lubricant base oils; and transportation and industrial finished lubricants

Eni SpA is involved in the oil, natural gas, electricity generation, oilfield services, and engineering markets. The Company operates in seven major segments: Exploration and Production, Gas and Power, Refining and Marketing, Versalis, Engineering and Construction, Other Activities, and Corporate and Financial Companies. The Italian government owns a 30-percent stake in Eni.

The Company competes in the world lubricant industry through the Refining and Marketing segment, which had sales of $71.6 billion and employed 6,770 in 2014. The segment comprises operations for the refining and marketing of various petroleum products, including lubricant base oils and finished lubricants. Eni produces more than 650 types of transportation and industrial lubricants. Specific transportation products include I-SINT, I-SINT PROFESSIONAL, and I-SINT TECH passenger car engine oils; I-SIGMA heavy-traction lubricants for trucks; I-RIDE motorcycle engine oils; CLADIUM and SIGMA

TABLE VI-5

<table>
<thead>
<tr>
<th>Item</th>
<th>2004</th>
<th>2009</th>
<th>2014</th>
<th>2019</th>
<th>2024</th>
</tr>
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<tbody>
<tr>
<td>Gross Domestic Product (bil 2013$)</td>
<td></td>
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<tr>
<td>kg lubricant/mil $ GDP</td>
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<tr>
<td>Motor Vehicles in Use (mil units)</td>
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<tr>
<td>kg MV lubricant/vehicle</td>
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<tr>
<td>Lubricant Demand</td>
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<tr>
<td>Motor Vehicle Aftermarket:</td>
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<tr>
<td>Light Vehicles</td>
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<tr>
<td>Medium &amp; Heavy Trucks &amp; Buses</td>
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<td>Manufacturing</td>
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<td>Other Markets</td>
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Source: The Freedonia Group, Inc.

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STUDY COVERAGE

This Freedonia study, World Lubricants, presents historical demand data (2004, 2009, 2014) plus forecasts (2019, 2024) by product, formulation and market for 6 regions and 25 major countries. Total demand is given for an additional 8 countries. This study also considers market environment factors, details the industry structure, evaluates company market share and profiles 33 industry players.
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#### World Lubricants

<table>
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<tr>
<th>Option</th>
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<tr>
<td>Corporate Use License (add to study price)</td>
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</tr>
<tr>
<td>Additional Print Copies @ $600 each</td>
<td>$600</td>
</tr>
<tr>
<td>Enclosed is my check (5% discount) drawn on a US bank and payable to The Freedonia Group, Inc., in US funds (Ohio residents add 8% sales tax)</td>
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<tr>
<td>Bill my company</td>
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<td>American Express</td>
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<td>Visa</td>
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**Name**

**Title**

**Company**

**Division**

**Street**

*(No PO Box please)*

**City/State/Zip**

**Country**

**Phone**

**Fax**

**Email**

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**Signature**

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US demand for waxes will rise 1.8 percent annually through 2019 to 3 billion pounds, with value demand reaching $3.2 billion. Petroleum and mineral waxes will remain the dominant types, while synthetic waxes will grow the fastest. The leading industrial market will provide the best opportunities, particularly in the production of coatings and inks, adhesives, and building boards. This study analyzes the $2.4 billion US wax industry, with forecasts for 2019 and 2024 by type and market. The study also evaluates company market share and profiles industry players.

Synthetic Lubricants & Functional Fluids
US synthetic lubricant and functional fluid demand will rise 6.8 percent yearly to $6.3 billion in 2018. Engine oils will account for the largest share of gains, while Group III base oils will remain the fastest growing type. The energy and power generation, automotive, and industrial machinery markets will grow the fastest. This study analyzes the $4.6 billion US synthetic lubricant and functional fluid industry, with forecasts for 2018 and 2023 by product, market, and region. The study also evaluates company market share and profiles industry participants.

Surfactants
US demand for surfactants will rise 3.2 percent per year to 10.9 billion pounds in 2018, valued at $14.4 billion. Industrial markets will grow the fastest, benefiting specialty surfactants the most. Personal care products will also offer good market opportunities, led by surfactants that are gentle on skin and hair and are environmentally sustainable. This study analyzes the 9.3 billion pound US surfactants industry, with forecasts for 2018 and 2023 by market and product. The study also evaluates company market share and profiles industry participants.

World Biofuels
World demand for biofuels is expected to expand at a 3.6 percent annual pace, reaching 115 million metric tons in 2018. North America and Central and South America will remain the largest regional markets, while the Asia/Pacific region grows the strongest from a relatively small base. Bioethanol will remain the leading biofuel. This study analyzes the 96.3 million metric ton global biofuel industry, with forecasts for 2018 and 2023 by product, market, and region. The study also evaluates company market share and profiles industry participants.

Solvents
US demand for solvents is expected to increase at a 1.5 percent annual pace through 2018 to 11 billion pounds. Growing environmental concerns and regulatory pressure will drive demand for “green” solvents that are derived from renewable raw materials. The paint and coatings market will replace the transportation market as the largest solvent consumer. This study analyzes the 10.2 billion pound US solvent industry, with forecasts for 2018 and 2023 by product and market. The study also evaluates company market share and profiles industry players.

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The Freedonia Group, Inc., is a leading international industry market research company that provides its clients with information and analysis needed to make informed strategic decisions for their businesses. Studies help clients identify business opportunities, develop strategies, make investment decisions and evaluate opportunities and threats. Freedonia research is designed to deliver unbiased views and reliable outlooks to assist clients in making the right decisions. Freedonia capitalizes on the resources of its proprietary in-house research team of experienced economists, professional analysts, industry researchers and editorial groups. Freedonia covers a diverse group of industries throughout the United States and other world markets. Industries analyzed by Freedonia include:

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