**COMPREHENSIVE PRODUCT AND SERVICE PROVISION**

Shell Lubricants is named the number one lubricants supplier (Kline & Company, 2009) and has a 60-year history of innovation. We are constantly investing to develop better lubrication solutions, as demonstrated by:

- **Shell Turbo GT** – a fully synthetic, top-tier industrial gas turbine oil
- **Shell Diala S3 ZHI** – a premium inhibited electrical insulating oil.

In addition, Shell provides the excellent Shell LubeAnalyst oil condition monitoring service, which is designed to help you improve your business performance.

Whatever your needs or application, Shell can provide a full range of oils and greases, including synthetic, high-performance products and additional services.

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**Table of Products and Specifications**

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| Natural gas or mild sour gas     | Shell Mysella XL | ■ Extended oil life  
■ Extra protection against deposits and corrosion | 40, 30, 15W40         | Mineral oil     | Meets requirements of Caterpillar  
Approved by Cummins (‘premium grade – long change interval’),  
MWM, GE Jenbacher 2, 3 and 6 series, MAN high-speed engines,  
MDE Dezentrale Energiesysteme, Perkins Engines, Rolls-Royce Bergen KG1, KG2, KG3, K64 and B, Wärtsilä, and Dresser Wäteke (special approval for cogeneration) |
| Natural gas or mild sour gas     | Shell Mysella LA  | ■ Reliable protection  
■ Low ash content for four-stroke engines | 40, 30               | Mineral oil     | Meets requirements of Caterpillar and Dresser Wäteke  
Approved by Cummins QSV81/91G 14 and 16 bar WP, MWM,  
Dresser-Rand, GE Jenbacher 2, 3, 4 and 6 series, MAN medium-speed engines,  
MDE Dezentrale Energiesysteme, MTU, Perkins Engines,  
Rolls-Royce Bergen KG1, KG2 and KG3, Ruston, and Wärtsilä |
| Natural or sour gas              | Shell Mysella MA  | ■ Extra protection  
■ Medium ash content for four-stroke engines | 40                   | Mineral oil     | Natural gas approvals: GE Jenbacher 2 and 3 series, MDE Dezentrale Energiesysteme, MAN high-speed engines, and Dresser Wäteke  
Special approval for cogeneration  
Sour gas approvals: GE Jenbacher 2 and 3 series, MAN high-speed engines, Rolls-Royce Bergen, and Ruston |
| Heavy fuel, high sulphur         | Shell Argina XL  | ■ Extra protection  
■ BN 30                  | 40                   | Mineral oil     | Approved by MAN medium-speed engines, and Wärtsilä |
| Heavy fuel, medium sulphur       | Shell Argina X   | ■ Extra oil life  
■ BN 40                  | 40, 30                | Mineral oil     | Meet requirements of Doosan, Mitsubishi Heavy Industries, and Nippon  
Approved by Caterpillar-MaK, MAN medium-speed engines, SEMT-Pielstick, and Wärtsilä |
| Heavy fuel, low sulphur or high oil consumption | Shell Argina T   | ■ Reliable protection  
■ BN 30                  | 40, 30                | Mineral oil     | Meet requirements of Doosan, Mitsubishi Heavy Industries, and Nippon  
Approved by Caterpillar-MaK, MAN medium-speed engines, SEMT-Pielstick, and Wärtsilä |
| Gasoil or liquid biofuel         | Shell Gadinia AL | ■ Extra protection  
■ Extra long oil life    | 40                   | Mineral oil     | Approved by Caterpillar-MaK, and MAN medium-speed engines |
| Gasoil or liquid biofuel         | Shell Gadinia   | ■ Reliable protection  
■ Reliable oil life      | 40, 30                | Mineral oil     | Meet requirements of Doosan, and Mitsubishi Heavy Industries  
Approved by Caterpillar-MaK, MAN medium-speed engines, SEMT-Pielstick, and Wärtsilä |
| Distillate diesel or fatty-acid methyl ester | Shell Rimula grades | Complete range of products from mineral to synthetic oil grades | - | Mineral oil | For more information, please contact Shell Lubricants, or visit shell.com/lubricants.
Shell offers a complete range of lubricating oils for stationary power-generation engines burning gas, heavy fuel, gas oil or liquid biofuel. These products have been designed to help make it easy for equipment operators to select the oil that will best deliver value to their operations through:

- enhanced equipment protection
- long oil life
- high system efficiency

**EQUIPMENT PROTECTION**

All Shell’s power-generation engine oils are designed to minimise deposit build-up and to keep your engine clean. For instance, Shell Argina has been specifically formulated to keep piston undercrown clean, thereby maintaining cooling performance and preventing hot corrosion. For gas engines, Shell Mysella XL has been designed to provide superior deposit control, even in engines with very high piston temperatures. This helps maintain excellent ring belt cleanliness and cylinder liner protection.

**OIL LIFE**

Optimising oil life is central to Shell’s development of power-generation engine oils. Shell Argina is available with a range of base numbers; correct product selection and oil condition monitoring can help to optimise an operator’s cost of ownership. Shell Mysella XL has set a new standard for oil life in modern high-efficiency gas engines and has been categorised as a premium grade or long-drain-interval oil by several engine manufacturers.

**SYSTEM EFFICIENCY**

Engine efficiency is enhanced through the retention of factors such as component cleanliness, consistent oil viscosity and efficient cooling – all Shell’s products are designed with these in mind. Shell Gadinia AL has been shown to successfully help maximise engine efficiency through the retention of factors such as component cleanliness, consistent oil viscosity and efficient cooling – all Shell’s products are designed with these in mind.

**REAL-WORLD VALUE DELIVERY**

The Shell range of stationary engine oils has brought significant savings to operators. For instance, one power plant reports saving $39,000¹ a year when it switched to Shell Argina XL after suffering heavy soot and deposit build-ups in its diesel engines. Another power plant adopted Shell Mysella XL in an effort to reduce high oil consumption, and reportedly saved $23,400¹ a year through reduced downtime, increased oil life and longer oil-drain intervals.

**SHELL SERVICES FOR POWER COMPANIES**

Shell’s offer extends beyond the oil. With services such as support with commissioning, flushing, filtering and filtration as well as ongoing oil condition monitoring and top-up advice, Shell can contribute to helping you to run your operation efficiently and cost-effectively.

**A RANGE OF STATIONARY ENGINE OILS DESIGNED TO MEET YOUR NEEDS**

To meet the challenges of a wide range of applications, Shell has designed a portfolio of oils that helps you to choose a product to best match your needs.