



**DESIGNED TO  
BOOST PRODUCTIVITY.**

**JUST LIKE OUR LUBRICANT  
SOLUTIONS FOR GENERAL  
MANUFACTURING.**

**DESIGNED TO MEET CHALLENGES**



**DESIGNED TO CUT COSTS**

In manufacturing, you are constantly striving to drive down production and maintenance costs, and to increase your competitiveness. Whether you want to increase the productivity of your assembly line or extend the life of your manufacturing equipment, Shell has lubricants that can help to make a real difference to your bottom line.

These products can help to reduce your process and equipment-ownership costs by providing

- enhanced protection
- extended oil and equipment life
- improved energy efficiency.

**DELIVERING VALUE**

Using the right lubricants can substantially reduce costs by

- cutting unplanned plant downtime
- lowering maintenance costs
- increasing equipment life and availability.

**PROVEN TECHNOLOGY**

Shell harnesses technology to deliver value through the creation of solutions such as energy-efficient and long-life lubricant products that respond to customers' needs. It makes a significant investment each year in the research and development of new lubricant products at cutting-edge laboratories in Asia, Europe and North America. All Shell lubricants are subjected to rigorous development programmes, and the organisation works closely with equipment manufacturers to ensure that its products are approved for use in your equipment. The benefits of Shell lubricants are then demonstrated in manufacturing facilities around the world.

**ENERGY EFFICIENCY:** Leading manufacturing companies and other businesses have significantly cut the energy consumption of those hydraulic systems in which Shell Tellus S4 ME synthetic hydraulic oil is used. For example, in a carefully controlled test cycle, one injection moulding equipment maker measured energy savings of up to 6.4%!

INCREASINGLY EFFICIENT PROTECTION



	HYDRAULIC OILS	GEAR OILS	COMPRESSOR OILS	SPECIAL APPLICATIONS	GREASES (Many other greases available)	
					Extreme-pressure range	Special applications
ADVANCED TIER 4/5	<p>Shell <b>Tellus S4 ME</b></p> <p><b>SYNTHETIC</b></p> <ul style="list-style-type: none"> <li>■ Extra long life</li> <li>■ Energy saving</li> </ul>	<p>Shell <b>Omala S4 GX</b></p> <p><b>SYNTHETIC</b></p> <ul style="list-style-type: none"> <li>■ Extra protection</li> <li>■ Extra long life</li> <li>■ Special applications</li> </ul>	<p>Shell <b>Corena S4 R</b></p> <p><b>SYNTHETIC</b></p> <ul style="list-style-type: none"> <li>■ Extra long life</li> <li>■ Systems efficiency</li> <li>■ Severe applications</li> </ul>	<p>Shell <b>Omala S4 WE</b></p> <p><b>SYNTHETIC GEAR OIL</b></p> <ul style="list-style-type: none"> <li>■ Extra protection and life</li> <li>■ Energy saving</li> <li>■ Worm gear applications</li> </ul>	<p>Shell <b>Gadus S5 V220</b></p> <p><b>SYNTHETIC</b></p> <ul style="list-style-type: none"> <li>■ Extra protection and extra long life</li> <li>■ Improved efficiency</li> <li>■ Lithium complex</li> </ul>	<p>Shell <b>Gadus S5 T100</b></p> <p><b>SYNTHETIC ELECTRIC MOTOR GREASE</b></p> <ul style="list-style-type: none"> <li>■ Long life</li> <li>■ Extreme temperature</li> <li>■ Polyurea</li> </ul>
PREMIUM TIER 3	<p>Shell <b>Tellus S3 M</b></p> <ul style="list-style-type: none"> <li>■ Long life and improved efficiency</li> <li>■ Industrial applications</li> </ul>	<p>Shell <b>Omala S3 GP</b></p> <ul style="list-style-type: none"> <li>■ Extreme load protection</li> <li>■ Special applications</li> </ul>	<p>Shell <b>Corena S3 R</b></p> <ul style="list-style-type: none"> <li>■ Long life</li> <li>■ Systems efficiency</li> </ul>	<p>Shell <b>Tonna S3 M</b></p> <p><b>SLIDEWAY OIL</b></p> <ul style="list-style-type: none"> <li>■ Extra machining accuracy</li> <li>■ Standard applications</li> </ul>	<p>Shell <b>Gadus S3 V220 C</b></p> <ul style="list-style-type: none"> <li>■ Extra protection and long life</li> <li>■ High temperature</li> <li>■ Red lithium complex</li> </ul>	<p>Shell <b>Gadus S3 High-Speed Coupling Grease</b></p> <ul style="list-style-type: none"> <li>■ High speed</li> <li>■ Extra protection</li> <li>■ Lithium complex</li> </ul>
MAIN LINE TIER 2	<p>Shell <b>Tellus S2 M</b></p> <ul style="list-style-type: none"> <li>■ Extra protection</li> <li>■ Industrial applications</li> </ul>	<p>Shell <b>Omala S2 G</b></p> <ul style="list-style-type: none"> <li>■ Extra protection</li> <li>■ Standard applications</li> </ul>	<p>Shell <b>Corena S2 R</b></p> <ul style="list-style-type: none"> <li>■ Reliable protection</li> <li>■ Standard-life applications</li> </ul>	<p>Shell <b>Tonna S2 M</b></p> <p><b>SLIDEWAY OIL</b></p> <ul style="list-style-type: none"> <li>■ Extra separation from coolants</li> <li>■ Standard applications</li> </ul>	<p>Shell <b>Gadus S2 V220</b></p> <ul style="list-style-type: none"> <li>■ Reliable protection</li> <li>■ Versatile applications</li> <li>■ Lithium</li> </ul>	<p>Shell <b>Gadus S2 V220AD</b></p> <p><b>SHOCK-LOAD GREASE</b></p> <ul style="list-style-type: none"> <li>■ Heavy-duty protection</li> <li>■ Water resistant</li> <li>■ Lithium calcium</li> </ul>
ENTRY TIER 1	<p>Shell <b>Hydraulic S1 M</b></p> <ul style="list-style-type: none"> <li>■ Reliable protection</li> <li>■ Industrial applications</li> </ul>	<p><b>A</b> = Wet (aqueous) conditions      <b>P</b> = Extreme/high pressure       Long life</p> <p><b>C</b> = Colour      <b>R</b> = Rotary air compressor       High load</p> <p><b>D</b> = Contains solids      <b>T</b> = High temperature       Factory/machine applications</p> <p><b>E</b> = Energy saving, high efficiency      <b>V</b> = Versatile applications       High temperature</p> <p><b>G</b> = Gear: spur and helical      <b>W</b> = Worm drive       Heavy load</p> <p><b>M</b> = Manufacturing/machine: factory applications      <b>X</b> = Extra/extreme performance</p>				

**ENHANCED PROTECTION:** Chinese textile manufacturer Hongyue has 400 looms at its Jiaying plant. The company reported that it is saving over \$17,000<sup>2</sup> a year thanks to Shell Omala S2 G gear oil's enhanced protection and longer life. Hongyue is improving its lubricant management practices, and is using the Shell LubeAnalyst oil and equipment monitoring service to increase equipment availability.

**EXTENDED EQUIPMENT LIFE:** A global steel manufacturer reported that it reduced bearing failure rates by 75% and grease consumption by 30% when it switched to Shell Gadus S3 T100 polyurea greases.

**FULL PRODUCT PORTFOLIO**

Shell offers a comprehensive product range that is designed to help you easily select the right lubricants for your needs, including oils and greases for

- plastic injection moulding
- pumps, gearboxes, compressors, bearings, hydraulic systems and other industrial equipment.

It also includes specialist product ranges, including

- Shell Naturelle environmentally considerate oils and greases
- Shell Gadus greases, including speciality greases and open-gear lubricants.

**WORLD-LEADING SERVICES**

The Shell LubeAnalyst oil condition monitoring service is also offered as a health check for your lubricants and machinery. It is designed to reduce costs through

- identifying potential oil or equipment failures before they become critical
- extending lubricant life, thus reducing change-out downtimes and procurement costs
- lowering risks and contributing to safe and reliable operations.





## WORKING WITH INDUSTRY

Modern manufacturing equipment is designed to be smaller and to operate under higher pressures and temperatures. Oil-drain intervals and the demands on lubricants have also increased. To respond to market needs, Shell is continually developing products to help you to reduce your energy consumption and operating costs, and to raise your productivity, product quality and equipment uptime.

Shell has long relationships with many equipment manufacturers. Many of these companies supply their equipment containing a Shell lubricant as an essential component of the machine.

Shell's 3,000 equipment manufacturer recommendations or approvals across its product range include approvals from

- ABB
- Bonfiglioli
- Bosch
- Bosch Rexroth
- Cincinnati Machines
- CompAir
- Eaton (Vickers)
- Flender
- Mitsubishi Heavy Industries
- Parker Hannifin
- SEW-Eurodrive
- Schaeffler
- Textron
- SKF
- Timken
- Voith.

Shell supports the development of new industry performance specifications by working with international organisations such as

- AGMA
- ASTM
- DIN
- ISO.

## EFFICIENCY FOR YOUR FACILITY

Over many years of working with the world's leading manufacturers, Shell lubricant experts have developed a deep understanding of your industry challenges. They use this knowledge and experience to create technology-leading products that can deliver clear benefits, which can be demonstrated in your facility.

**SPEAK TO YOUR SHELL LUBRICANTS DISTRIBUTOR FOR MORE INFORMATION.**

"Shell Lubricants" refers to the various Shell companies engaged in the lubricants business.

<sup>1</sup>The actual energy savings depend on the application, the current oil, the maintenance procedures, the equipment condition, the operating conditions and the intensity of hydraulic power usage.

<sup>2</sup>Savings reported by one customer. Actual savings may vary, depending on the applications, the current oil used, the maintenance procedures and the condition of the equipment.