



FROM EXCELLENT COMPONENT PROTECTION TO INCREASING PRODUCTIVITY

**SHELL GADUS® OPEN GEAR GREASES
HELP MAKE IT POSSIBLE**

**SHELL
LUBRICANT
SOLUTIONS**



SHELL LUBRICANTS IS A LEADING SUPPLIER OF OILS, GREASES AND FLUIDS TO THE MINING INDUSTRY, PROVIDING PIONEERING RESEARCH CENTERS AND INNOVATIVE TECHNICAL PARTNERSHIPS TO HELP OUR LUBRICANTS DELIVER EXCELLENT COMPONENT PROTECTION.



WE ALSO PROVIDE

- On-the-ground experts to help analyze your needs and solve your lubrication problems, thereby **unlocking your mining potential**
- International resources offering **security of supply** and consistently high-quality products and services
- A **comprehensive range** of lubricants and services for mining operations
- Experience **working with leading mining companies**, including Anglo American, Barrick Gold, BHP Billiton, Rio Tinto, Thiess and Xstrata
- **Over 3,000 equipment manufacturer approvals** across the product range

DEDICATED PRODUCTS FOR SPECIAL APPLICATIONS

At Shell Lubricants, we appreciate that in tough conditions and remote areas you are constantly striving to:

- Maximize machine availability
- Drive down production costs
- Cut maintenance costs

Our new generation open gear grease range offers outstanding protection across all seasons and climates:

- **Shell Gadus S4 OGT** – for warm climates and extreme hot weather
- **Shell Gadus S4 OGXK** – for cold climates and subarctic winters
- **Shell Gadus S4 Multi-Season** – our universal mid-range temperatures product



EQUIPMENT SPECIFICATIONS

These products are suitable for open gears on mobile mining equipment such as shovels, excavators and hoists. They meet equipment manufacturer specifications including CAT SD4713 and SEBU6250-21, JoyGlobal P&H 464 and 520.

PRODUCT RANGE

The Shell Gadus S4 OG product range offers protection in:

- **Extreme heavy-duty applications**, sustained heavy loads and shock loads
- **Severe environmental conditions**
- **A wide range of ambient temperatures** and significant daily and seasonal temperature variations
- **Long operating hours** with a focus on productivity and minimum, planned downtime for maintenance

PRODUCT FORMULATION

Shell Gadus S4 OG is formulated with

- A special aluminium complex thickener modified for adhesiveness
- High-quality, high-viscosity base oils to deliver good film thickness, even under high pressure



PERFORMANCE

It **meets** increasingly challenging equipment manufacturers' lubricant **performance requirements**.

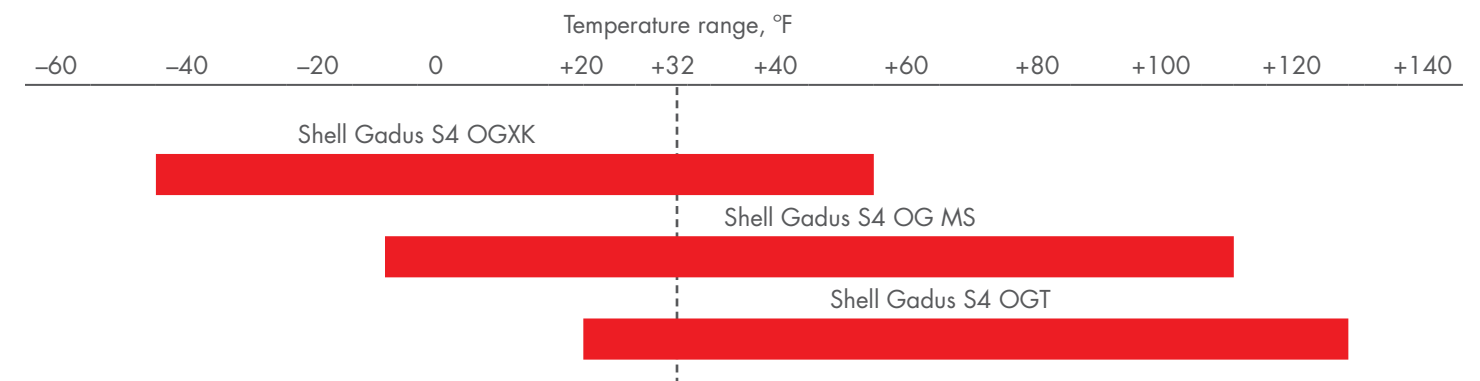
The Shell Gadus S4 OG product range helps to prevent damage to gear teeth from shock loading, potentially leading to **reduced downtime and maintenance costs and extended equipment life**. It incorporates:

- A specially designed anti-wear, extreme-pressure (EP) additive package*
 - >15% solid additives, including 5% molybdenum disulfide (MoS₂)
 - Optimized for use with the aluminium complex thickener
- Ultra-high-viscosity base oils that
 - Far exceed equipment manufacturers' requirements
 - Offer heavy-duty protection.
- Synthetic technology, which
 - Maintains excellent flow properties across the operational temperature range, without using viscosity modifiers

Shell Gadus S4 OG is fully compatible with aluminium complex greases.

	Shell Gadus S4 OGXK	Shell Gadus S4 OG MS	Shell Gadus S4 OGT
Temperature range, °F	-40°F to +50°F	-4°F to +104°F	23°F to +122°F
NLGI	00/000	0/00	0
Base fluid viscosity, cSt*	4,000	4,000	5,500

*1cSt=1 mm²/sec





SHELL GADUS S4 OGT VS COMPETITIVE OPEN GEAR GREASE

Excellent product coverage and persistent lubricant film.
Shell Gadus S4 OGT on open gear teeth of an electric shovel



Poor adhesiveness results in unprotected open gear tooth surfaces. **Competitor's** product on electric shovel at same site



Open Gear Grease	Material #	Size	Country Available
Gadus S4 OGT (Summer)	500008550	Bulk	US/CA
	550046062	Drum	US/CA
	550046061	Keg	US/CA
Gadus S4 OGMS (All Season)	500007470	Bulk	US/CA
	550043336	Tote	US/CA
	550037672	Drum	US/CA
	550043337	Keg	CA
Gadus S4 OGXK (Winter)	500007860	Bulk	US/CA
	550043506	Tote	US/CA
	550043505	Drum	US/CA
	550043504	Keg	US/CA

ADDITIONAL VALUE-ADDING SERVICES

OUR SUITE OF LUBRICANT-RELATED SERVICES ALSO INCLUDES

Shell
LubeExpert

Specialist on-site critical application support and inspections for specialty lubrication systems including mobile and fixed plant equipment.

Shell
LubeAnalyst

This early-warning system helps you identify potential oil or equipment failures before they become critical.

Shell
LubeCoach

We coach your team to help them deliver better performance through this in-depth lubrication training program.

Whether you are looking to solve specific lubrication-related issues, enhance the skills and confidence of your staff or seek exposure to innovative practices, **talk to Shell** to see how the Shell Gadus open gear product range can help deliver value to your operations.

shell.us/lubricants

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