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## DONGYING ARTIFICIAL BOARD FACTORY REDUCES ITS GREASE CONSUMPTION BY 16% WITH SHELL GADUS S2 V220 2\*

TOTAL REPORTED ANNUAL CUSTOMER SAVING

# US\$9,848



**COMPANY:** Dongying Artificial Board Factory

**COUNTRY:** China

**APPLICATION:** Bearings

**SAVING:** US\$9,848 total annual reported customer saving

**KEY EDGE:** Shell Gadus S2 V220 2

**Dongying Artificial Board Factory in Shandong Province, China, manufactures medium-density fibreboard. The company installed a new production line that incorporates spherical roller bearings. After a year, Dongying Artificial Board Factory was experiencing frequent bearing failures and high grease consumption. The company wanted to find out if it could reduce operating and maintenance costs by changing the grease used to lubricate the bearings, and approached Shell for advice.**

Shell Lubricants recommended Shell Gadus S2 V220 2 to help Dongying Artificial Board Factory to cut its grease consumption and thus reduce costs. The technical team demonstrated the advantages of Shell Gadus S2 V220 2 and Shell's total service solutions and strong distributor network. Shell Lubricants also held a seminar on equipment maintenance and lubricant storage that was customised for the factory.

Since changing to Shell Gadus S2 V220 2, Dongying Artificial Board Factory has experienced fewer bearing failures and consequently less production downtime. The company has reduced its grease consumption by more than 16%, from 600 to 500 kg a year, and has reported annual savings of US\$9,848. Dongying Artificial Board Factory is also benefiting from the after-sales service provided by the Shell technical team, including frequent on-site visits and advice on equipment maintenance.



GRE00198

\*Shell Gadus S2 V220 2 is the new name for the Shell lubricant formerly known as Shell Alvania EP(LF)2.

# 1

## CHALLENGE

Dongying Artificial Board Factory was experiencing frequent bearing failures and high grease consumption and sought to reduce the operating and maintenance costs for its new production line by changing the grease used to lubricate the bearings.

# 2

## SOLUTION

Shell Lubricants recommended Shell Gadus S2 V220 2 to help Dongying Artificial Board Factory to cut its grease consumption and thus reduce costs. The Shell technical team also held a seminar customised for the factory on equipment maintenance and lubricant storage.

# 3

## OUTCOME

Dongying Artificial Board Factory is experiencing fewer bearing failures and consequently less production downtime since changing to Shell Gadus S2 V220 2. The company has reduced its grease consumption by more than 16%, from 600 to 500 kg a year.

# 4

## VALUE

The reduction in grease consumption since switching to Shell Gadus S2 V220 2 has given Dongying Artificial Board Factory a reported annual saving of US\$9,848.<sup>1</sup>

<sup>1</sup>The savings indicated are specific to the calculation date and mentioned site. These calculations may vary from site to site and from time to time, depending on, for example, the application, the operating conditions, the current products being used, the condition of the equipment and the maintenance practices.



## SHELL GADUS S2 V220

HIGH-PERFORMANCE, MULTIPURPOSE, EXTREME-PRESSURE GREASE

Shell Gadus S2 V220 greases are high-quality, multipurpose, extreme-pressure greases based on a blend of high-viscosity-index mineral oils and a lithium hydroxystearate soap thickener. They contain extreme-pressure and other proven additives to enhance their performance in a wide range of applications.

Shell Gadus S2 V220 greases are designed for multipurpose greasing of rolling-element and plain bearings, and hinges and sliding surfaces such as those found throughout most industrial and transport sectors.

### Applications

Shell Gadus S2 V220 2 grease is designed for

- heavy-duty bearings and general industrial lubrication
- heavy-duty plain and rolling-element bearings operating under harsh conditions, including shock loading in wet environments
- operation over the temperature range -20 to +100°C for bearings operating at 75% of the maximum rated speed and can withstand up to 120°C intermittently.

### Performance features and benefits

- Outstanding load-carrying capacity. Shell Gadus S2 V220 greases contain special extreme-pressure additives that enable them to withstand heavy and shock loads without failure of the lubricant film.
- Improved mechanical stability. This is particularly important in vibrating environments where poor mechanical stability can lead to grease softening and the subsequent loss of lubrication performance and leakage.
- Good resistance to water washout. Shell Gadus S2 V220 greases have been formulated to offer resistance to water washout.



- Oxidation stability. Specially selected base oil components have excellent oxidation resistance. Their consistency will not alter in storage and they withstand high operating temperatures without hardening or forming bearing deposits.
- Corrosion protection. Shell Gadus S2 V220 greases have an affinity with metal and can help to protect bearing surfaces against corrosion, even when the grease is contaminated with water.

### Specifications and approvals

Shell Gadus S2 V220 is Shell's most popular multipurpose grease and is widely recognised and listed by many leading equipment makers. It meets the Timken specification for steel mills; and NLGI 1, 2 and 3, and ASTM D4950-08 LB for automotive chassis lubrication.

### Complementary products

Application	Lubricants
Hydraulic oils	Shell Tellus
Gear oils	Shell Omala
Compressor oils	Shell Corena
Slideway oils	Shell Tonna



### FOR MORE INFORMATION, CONTACT US

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