



# SHELL GADUS S3 V460\* HELPS TO EXTEND RE-GREASING INTERVALS BY AN IMPRESSIVE 333%

TOTAL REPORTED ANNUAL CUSTOMER SAVING:

**US\$2,688,000**



**COMPANY:** The Egyptian Iron & Steel Company

**COUNTRY:** Egypt

**APPLICATION:** Continuous casting bearings

**SAVING:** US\$2,688,000 total reported annual customer saving

**KEY EDGE:** Shell Gadus S3 V460

**The Egyptian Iron & Steel Company manufactures steel products including steel sections, flat steel sheets and rebar. The company was experiencing high operational costs because of the poor performance and low efficiency of its existing lubricant oils. Operators needed to re-grease the casting machine every 75 hours, which generated a significant loss of production and increased operating costs.**

The Shell technical team recommended a high base oil viscosity grease, Shell Gadus S3 V460, made with a lithium complex soap thickener. This product was recommended because its formula resists water washout, copes well in high temperatures and withstands continuous vibrations and shocks, which makes it particularly suitable for the heavy-duty operations of a factory.

As a result of switching to Shell Gadus S3 V460, the Egyptian Iron & Steel Company extended the re-greasing intervals of the casting machine from 75 to 250 hours, an increase of 333%. This resulted in decreased maintenance costs and lubricant consumption, as well as an increase in production time through trouble-free operation. The company has reported total annual savings of US\$2,688,000 through the elimination of production downtime.



TOM0001

\*Shell Gadus S3 V460 is the new name for the Shell lubricant formerly known as Shell Albida HD 2.

# 1

## CHALLENGE

The Egyptian Iron & Steel Company was experiencing high operational costs because of the poor performance and low efficiency of its existing lubricant oils. Operators needed to re-grease the casting machine every 75 hours, which generated a significant loss of production and increased operating costs.

# 2

## SOLUTION

The Shell technical team recommended a high base oil viscosity grease, Shell Gadus S3 V460, made with a lithium complex soap thickener, which is particularly suitable for the heavy-duty operations of a factory.

# 3

## OUTCOME

As a result of switching to Shell Gadus S3 V460, the Egyptian Iron & Steel Company extended the re-greasing intervals of the casting machine from 75 to 250 hours, an increase of 333%. This resulted in decreased maintenance costs and lubricant consumption and an increase in production time.

# 4

## VALUE

The company has reported total annual savings of US\$2,688,000 through the elimination of production downtime.<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 S3 V460

### PREMIUM MULTIPURPOSE HEAVY-DUTY GREASE

Shell Gadus S3 V460 greases are premium, high-temperature greases for heavy-duty industrial applications. This product is based on high viscosity index mineral oil and a lithium complex soap thickener. It contains the latest additives to offer excellent high-temperature oxidation performance and other additives to enhance its anti-oxidation, anti-wear and anti-corrosion properties. Shell Gadus S3 V460 greases are especially suitable for slow-moving, heavy-duty bearings operating at high temperature and under severe load.



- Effective corrosion protection. Shell Gadus S3 V460 ensures that components or bearings do not fail through corrosion.
- High dropping point. Shell Gadus S3 V460 is resistant to high temperatures.

### Applications

Shell Gadus S3 V460 greases are used for the grease lubrication of heavy-duty, slow moving bearings used in heavy industries, including steel, for continuous casters, work-roll bearings, etc.; cement; paper, chemicals; and mining.

### Performance features and benefits

- High base oil viscosity to meet leading OEM requirements for slow-moving large bearings. Shell Gadus S3 V460 is proven in work-roll bending operations in steel plants.
- Excellent mechanical stability even under vibrating conditions. Consistency is retained over long periods, even in conditions of severe vibration.
- Enhanced extreme-pressure properties. Shell Gadus S3 V460 offers excellent load-carrying performance.
- Excellent water resistance. The product ensures lasting protection even in the presence of large amounts of water.

### Complementary products

Equipment	Lubricants
Hydraulic systems	Shell Tellus
Bearings	Shell Gadus
Rough and medium mills – gear oils	Shell Omala
Pre-finish and finish mills – bearing and circulating oils	Shell Morlina
Electrical motor oil system	Shell Turbo