



# Shell Lubricants

FOOD & BEVERAGE

Superior food safe grease leads to significant financial benefits through extended bearing life

Reported total annual customer saving

**US\$95,112**

**Country:** South Africa

**Application:** Hammer mill bearings

**Saving:** US\$95,112 reported total annual customer saving

**Key edge:** Shell Cassida RLS 2

*South Africa – fruit puree and concentrates processing industry.*

**The customer was experiencing bearing failures every five to six days caused by a low non performing grease.**

A high performance food-grade grease, Shell Cassida RLS 2, was recommended to reduce vibration and noise while ensuring continuous lubrication. The customer experienced a reduction in bearing failures and service costs reporting a total cost saving of US\$95,112 per annum.

PTH 0012



DESIGNED TO MEET CHALLENGES





## 1 The Challenge:

The customer was experiencing excessive vibration and noise from the bearing after only five days of operation with the bearing failing after six days of production. The regular failures were caused by the grease under performing at high temperatures which weakened the lubrication properties.

## 2 The Solution:

As a result of the high operating temperatures, Shell recommended switching to Shell Cassida RLS 2, a Food Grade grease utilising fully synthetic base oil technology. Manufactured with aluminium complex soap and PAO base oil, Shell Cassida RLS 2 displays superior performance in high temperature environments whilst providing food safety reassurance.

## 3 The Outcome:

The implementation of Shell Cassida RLS 2 reduced vibrations and noise and the increased thermal stability ensured continuous bearing lubrication even at high temperature. The operational benefits included:

- Reduction of bearing failure
- Increase in production due to reduced downtime
- Reduction in labour required to service bearing related breakdowns

## 4 The Value:

By introducing a premium grease designed to cope in a high temperature environment, the customer resolved the bearing failure issue and increased production. The total saving for this exercise attributed to the use of Shell Cassida RLS 2 can be calculated at US\$95,112 per annum.

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

### Shell Cassida Grease RLS

#### Greases for the food manufacturing industry

Shell Cassida Grease RLS are specially blended for the grease lubrication of machinery used in the food industry. They are based on an aluminium complex thickener, synthetic fluids and selected additives chosen for their ability to meet the stringent requirements of the food industry.

#### Performance features and benefits:

Shell Cassida Grease RLS are noted for their long life.

- Good water resistance. Ensures lasting protection even in the presence of large amounts of water
- Good oxidation and mechanical stability. Resist the formation of deposits caused by oxidation at high operating temperatures and maintain consistency, reducing leakage
- Effective corrosion protection. Ensures components/bearings do not fail due to corrosion
- Good adhesive properties. Reduce losses, so reducing grease consumption
- Neutral odour and taste
- Meet food-grade specifications NSF H1



#### Main applications:

Shell Cassida Grease RLS 0, RLS 1 and RLS 2

- Lightly loaded grease lubricated gear boxes
- Automatic, centralised lubrication systems  
Shell Cassida Grease RLS 0, RLS 1 and RLS 2
- Rolling element and plain bearings
- Joints and linkages open to the atmosphere
- Automatic, centralised lubrication systems
- Shell Cassida Grease RLS 1 is recommended for Lincoln centralised lubrication systems. Shell Cassida Grease RLS 2 is also available in aerosol

#### Complementary products

Equipment	Lubricants
Bearings	Shell Cassida Greases
Chains	Shell Cassida chain oils, Shell Cassida greases
Hydraulics	Shell Cassida Fluid HF
Compressors	Shell Cassida Fluid CR
Gearboxes	Shell Cassida Fluid GL
Open Gears	Shell Cassida Grease HDS 00
Vacuum Pumps	Shell Cassida Fluid HF, Shell Cassida Fluid VP
Penetrating Oil	Shell Cassida Fluid PL
Electric Motors	Shell Cassida Greases



Shell Lubricants

WWW.SHELL.COM