



# Shell Lubricants

METALS

A superior synthetic heavy-duty industrial gear oil, Shell Omala HD, leads to a 98% reduction in repair and maintenance costs

Total annual customer saving

**US\$51,314**



*The Swedish customer is a leading global supplier of high strength tool steel and related services.*

**Using an alternative supplier for their lubrication requirements, the customer was experiencing serious operational problems and no technical support to solve them.**

**Country:** Sweden

**Application:** Gearbox in steel milling machine

**Saving:** US\$51,314 total annual customer saving

**Key edges:** Shell Omala HD, Shell Lube**Advisor**

Shell monitored the customer's operation and utilising Shell Lube**Advisor** was able to improve overall performance achieving a total cost saving of US\$51,314 per annum.

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DESIGNED TO MEET CHALLENGES



## 1 The Challenge:

Using an alternative oil, the customer was experiencing frequent gearbox breakdowns in two milling machines. Due to the gear wheels wearing out completely, the machines were requiring repair every six months. With a lack of support from their existing supplier, the customer turned to Shell for a solution.

## 3 The Outcome:

Due to quality service from the Shell Technical Team and a recommended product alternative, the customer experienced various operational benefits including:

- A reduction in the time and money spent on maintenance and repair
- An increase in productivity
- The extension of oil drain intervals

## 2 The Solution:

The Shell technical team utilising Shell LubeAdvisor, was able to recommend a premium oil to cater for the customer's requirements. Shell recommended using a high performance lubricant, Shell Omala HD 100.

## 4 The Value:

The customer was in need of technical expertise and support to solve what was becoming an expensive operational issue. Utilising Shell LubeAdvisor, the Shell team was able to confidently recommend a product alternative, Shell Omala HD 100 and as a direct result of its implementation, a total cost saving of US\$51,314 per annum was achieved.

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 Omala Oil HD

#### Synthetic heavy-duty industrial gear oils

Shell Omala Oil HD is an advanced synthetic heavy-duty industrial gear oil offering outstanding lubrication performance under severe operating conditions, including improved energy efficiency, long service life and high resistance to micro-pitting for optimal gear protection.

#### Performance features and benefits

##### Excellent load carrying capacity and micro-pitting performance providing long component life

Provides high levels of load carrying capacity even under shock loading conditions, along with high resistance to micro-pitting (grey staining). These features provide benefits over mineral oil-based products in terms of gear and bearing component life.

##### Excellent oxidation and thermal stability extending lubricant life

Resists the formation of the harmful products of oxidation at high operating temperatures, improving system cleanliness and therefore reliability of the equipment.

##### Longer service intervals

Extended component and lubricant life offers the opportunity to extend service intervals and to reduce maintenance and disposal costs.

##### Superior lubricant performance improving gear efficiency

Offers improved low temperature performance and reduced change in viscosity with increase in temperature in comparison to mineral oil-based products. This provides better lubrication at low start-up temperatures and



the opportunity or energy savings by optimising the viscosity for normal operating conditions.

- Outstanding rust and corrosion protection of all metal surfaces
- Rapid water shedding and air release performance

#### Main applications

- Enclosed industrial reduction gear systems operating under severe operating conditions, such as high load, very low or elevated temperatures and wide temperature variations
- Particularly recommended for certain 'lubricated-for-life' systems
- Plain and rolling element bearings
- Oil circulation systems

#### Complementary products

Equipment	Lubricants
Hydraulic Systems	Shell Tellus/S
Bearings	Shell Alvania EP (LF), Shell Albida EP
Back-up Roll Bearings	Shell Vitrea M, Shell Morlina/SD
Work Roll Bearings and Coilers	Shell Omala, Shell Alvania WR/EP (LF), Shell Albida EP/HD
Gear Couplings	Shell Alvania GL/GC, Shell Malleus GL, Shell Albida GC
Gear Systems	Shell Omala
Electrical Motor Oil System	Shell Turbo T



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