



Shell Lubricants

MINING & QUARRYING

Using a Shell Bulk Grease Truck to replenish grease supply led to an impressive reduction in labour costs

Total annual customer saving

US\$50,650



Country: Australia

Application: Excavators

Saving: US\$50,650 total annual customer saving

Key edges: Shell Albida HDX 2, Shell Bulk Grease Truck

This customer is one of the world's major diversified mining groups. Their unique portfolio of high quality mining assets and natural resources includes precious, base metals and bulk commodities.

The customer was incurring significant labour costs due to a difficult and time-consuming lubrication process for re-greasing the excavators and the coal handling plant.

The Shell Technical Team analysed the situation and recommended the implementation of a built-for-purpose Shell Bulk Grease Truck. As a result, labour hours reduced and the customer achieved several operational and financial benefits.



DESIGNED TO MEET CHALLENGES



1 The Challenge:

The customer was restricted to replenishing excavators with hydraulic oil and diesel during crib breaks. Periodically, the machines would run out of grease prior to crib breaks causing unplanned shutdowns. In addition, the grease bins were removed and transported off site to be refilled at a lubricant supplier terminal. This process was increasing downtime and operational costs.

3 The Outcome:

By introducing a built-for-purpose Shell Bulk Grease Truck the customer experienced a number of valuable improvements on site including:

- An increase in personnel productivity
- An increase in production time by up to one hour per day due to on site product replenishment capability
- A significant improvement in the efficiency of the product replenishment process
- A reduction in Health and Safety risks

2 The Solution:

The Shell Technical Team recommended the excavator grease bin fills be carried out fortnightly using a built-for-purpose Shell Bulk Grease Truck. The grease truck has its own on-board pumping facility, grease hoppers and adaptable piping and hosing arrangements that allow grease bins to be replenished in almost any situations. Shell would co-ordinate and observe personnel to ensure the grease bins were filled correctly during crib breaks, maximising process efficiency.

4 The Value:

Through Shell Technical Team support and the implementation of a built-for-purpose Shell Bulk Grease Truck, the customer was able to achieve significant operational improvements resulting in financial savings. The revised replenishing system meant that labour, transportation and unplanned downtime costs were reduced. The total annual customer saving for this exercise can be calculated at US\$50,650.

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 Albida Grease HDX 2

High performance extreme-pressure multipurpose grease

Shell Albida Grease HDX 2 is a high performance high temperature grease for slow moving heavily loaded large bearings subject to shock loads. It is based on high viscosity index mineral oil and a lithium complex soap thickener. Apart from containing the latest additives to ensure excellent high temperature, anti corrosion and anti oxidation performance, it also contains MoS2 to ensure the grease can handle shock loads.



Performance features and benefits

High base oil viscosity to provide excellent load carrying performance

Meets the recommended base oil viscosity recommended by leading OEMs

Excellent mechanical stability even under vibrating conditions

Consistency retained over long periods, even in conditions of severe vibration

Enhanced extreme-pressure properties and resistant to shock loads

Excellent load-carrying performance enhanced by the presence of MoS2

Excellent water resistance

Ensures lasting protection even in the presence of large amounts of water

Effective corrosion protection

Ensures components/bearings do not fail due to corrosion

High dropping point

Resistant to high temperatures

Lead and nitrite free

For safe handling

Main applications

Shell Albida Grease HDX 2 is used for the grease lubrication of heavy-duty, slow moving bearings subject to shock loads found in the following industries:

- Mining
- Steel

Complementary products

Equipment	Products
Draglines	Shell Malleus, Shell Omala, Shell Albida
Shovels and Extractors	Shell Malleus, Shell Omala, Shell Albida, Shell Tellus
Mills	Shell Malleus, Shell Omala
Crushers and Conveyors	Shell Albida, Shell Alvania, Shell Tactic, Shell Tivela, Shell Omala
Ore Processing	Shell Albida, Shell Alvania, Shell Tactic, Shell Tivela, Shell Omala, Shell Tellus, Shell Corena
Haul Trucks	Shell Rimula, Shell Hyperia, Shell Spirax, Shell Retinax, Shell Albida, Shell Donax
Power Plant	Shell Argina, Shell Gardina, Shell Turbo



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