



Shell Lubricants

MINING & QUARRYING

Using a high quality severe duty grease and Shell Lube**Expert**, the customer reported a significant reduction in product waste and lubrication costs

Total reported
annual customer
saving

US\$65,447



Country: Australia
Application: Excavators
Saving: US\$65,447 total reported annual customer saving across three excavators
Key edges: Shell Albida HDX 2, Shell Lube**Expert**

The customer is one of Australia's leading coal producers, with extensive coal mining interests and prospects in Queensland and New South Wales.

Due to the use of an inadequate automatic lubrication system, the customer was experiencing over and under greasing on their three excavators.

Using Shell Lube**Expert**, Shell worked closely with the customer to improve operational performance.

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DESIGNED TO MEET CHALLENGES





1 The Challenge:

The customer was experiencing problems with the reliability of automatic lubrication systems on their three excavators. This led to both under greasing, resulting in a vast reduction in component life, and over greasing, causing waste so severe that machinery double or even tripled its grease consumption.

3 The Outcome:

Through the support of the Shell technicians, Shell LubeExpert and the use of Shell Albida HDX 2 the customer experienced various operational benefits including:

- A reduction in product waste
- A reduction in lubrication costs
- The extension of component life

2 The Solution:

Utilising the Shell LubeExpert service, a Shell Technical Team conducted operational inspections of the excavator's centralised grease systems every two weeks. The operational inspections assessed the following:

- Correct timer setting on grease pumps
- Integrity of all accessible grease lines
- Points of inadequate lubrication

4 The Value:

The inefficient performance of automatic lubrication systems was causing excessive product waste and component wear of three excavators. Monitoring operational performance using Shell LubeExpert supported by a premium grease, Shell Albida HDX 2, the customer realised a total reported annual saving of US\$65,447 in reduced product consumption.

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 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



Shell LubeExpert

Shell LubeExpert utilises Shell application, sector and product experts for specialist, on-site critical application support and inspections.

Complementary services

Shell LubeAnalyst

Shell LubeAnalyst is a world-class global oil and equipment condition monitoring service.

Shell LubeMatch

Shell LubeMatch offers lubrication recommendations for vehicles and equipment, information on quantities required and recommended change intervals.

Shell LubeCoach

Shell LubeCoach is a Shell quality training programme specifically designed to empower customers and their teams.

Shell LubeAdvisor

Shell LubeAdvisor is a suite of elements bringing product and application support to customers.

Shell LubeEquipment

Shell LubeEquipment is the provision of lubrication-related equipment and support to customers



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