



Shell Lubricants CONSTRUCTION

Making sure this customer had the right grease for its specific operation resulted in a cost saving of US\$3,800,000

Total annual customer saving

US\$3,800,000



Country: Venezuela
Application: Construction – bushings
Saving: US\$3,800,000 total annual customer saving
Key edge: Shell Albida HDX 2

Consortio Camargo Correa is a Brazilian based construction company. This exercise related to a large dam Consortio were constructing in Venezuela.

While excavating stone from the river for use in the construction of the dam, Consortio were experiencing a rapid decrease in the life of bucket pins and bushes in the excavation machines due to water contamination.

Shell recommend Shell Albida HDX 2, a lubricant with strong water resistance, to suit the project's working conditions. Having significant impacts on productivity through reducing maintenance and unscheduled downtime, the change over to Shell Albida HDX 2 resulted in a calculated cost reduction of US\$3,800,000.

MQC100



DESIGNED TO MEET CHALLENGES



1 The Challenge:

Water resistance became increasingly critical to ensure the reduction in operation costs. Consorcio's heavy machinery was being exposed to water while extracting stone from the river to crush for concrete. These conditions watered down the existing lubricant very quickly resulting in the need to replace bucket pins and bushes every 250 hours. As maintenance costs and unscheduled downtime spiralled, a lubricant with water resistance components was critical to the success of this operation.

2 The Solution:

Using Shell technical staff to initially assess the situation, Shell Albida HDX 2 was recommended for its high performance in the presence of water contamination, and positive results were achieved after its implementation.

3 The Outcome:

The implementation of Shell Albida HDX 2 achieved a number positive results including:

- An extension in excavator component life from 250 to 350 hours
- An increase in productivity due to the availability of equipment
- A reduction in maintenance and labour costs to change components
- A reduction in unscheduled downtime

4 The Value:

Through the use of Shell Albida HDX 2 and its high resistance to water contamination, the excavator's component life was significantly extended reducing productivity interruptions.

A 28% reduction in operational costs was achieved which can be calculated as an annual saving of US\$3,800,000.

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



Shell Lubricants

WWW.SHELL.COM/TRANSPORT