



Shell Lubricants

CONSTRUCTION

Reported annual cost saving
of US\$50,000 by switching
to Shell Retinax HDX 2

Total reported
annual customer
saving

US\$50,000



This leading Turkish construction company's field of activities are motorway, bridge, tunnel, airport, subway, railway, power plant and energy works.

The customer was experiencing significant bucket pin wear in their excavators which required a large amount of lubricant grease. Consequently, re-greasing operations were required up to four times a day causing long cumulative periods of downtime.

The increased costs and interrupted productivity prompted the company to seek advice.

Country: Turkey
Application: Bucket pins
Saving: US\$50,000 total reported annual customer saving
Key edges: Shell Retinax HDX 2, Shell Lube **VideoCheck**

Grease#003



DESIGNED TO MEET CHALLENGES





1 The Challenge:

Prior to consulting Shell, the customer was applying a lithium based grease to lubricate the excavators' bucket pins. As a result, they were facing numerous issues including very high wear of the bucket pins and very high grease consumption, amounting to 24 tons per year. Coupled with increased lubrication costs and increased downtime, the customer turned to Shell for a solution.

2 The Solution:

The customer benefited from a systematic consultation. A Shell Technical Team performed oil analysis using Shell LubeVideoCheck and by provided technical training.

Shell was confidently able to recommend Shell Retinax HDX 2 as an effective alternative to the lithium based grease previously used.

3 The Outcome:

By converting to Shell Retinax HDX 2, the customer has benefited in the following ways:

- Grease consumption was reduced from 24 tons to 3 tons
- A significant reduction in service costs due to a cut in lubrication frequency
- Improved bucket pin protection
- Reduction in excavator downtime

4 The Value:

The cost saving achieved can be mainly attributed to the significant decrease in grease consumption. As a result an annual cost saving of US\$50,000 was achieved.

Ongoing support from the Shell Technical Team, and the early detection of any future issues, provides peace of mind to the customer's management team.

The savings indicated are specific to the calculation date and 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 Retinax HDX 2

High performance extreme pressure heavy-duty greases with enhanced load carrying capacity for fifth wheel application

Shell Retinax Greases HDX are very high performance greases for automotive applications subjected to the most arduous conditions. Shell Retinax Greases HDX are based on high viscosity index mineral oil and a mixed lithium/calcium soap thickener and contain extreme-pressure, anti-oxidation, anti-wear, anti-corrosion and adhesion additives. They also contain molybdenum disulphide to provide resistance to shock loading.

Applications:

Shell Retinax Greases HDX are recommended for the lubrication of shock loaded heavy-duty bearings working in damp hostile conditions. Particularly suited for use in off-highway applications and for the lubrication of 'fifth wheels'.

Performance features:

- Outstanding mechanical stability
Maintains excellent lubrication properties even when subjected to severe vibration. Prevents grease breakdown and leakage.
- Effective extreme-pressure properties
Efficient lubrication of heavily loaded components.
- Good adhesive properties
In heavy load and shock conditions.
- Excellent anti-wear performance under shock load conditions
Ensures protection of key components at all times.



Approvals:

Shell Retinax Greases HDX contain 3% MoS₂, which meets the requirements of Caterpillar and Volvo.

Complementary products

Equipment	Lubricants
Diesel Engine Oils	Shell Rimula R6, R4, R3, R2
Hydraulic Fluids	Shell Tellus TX / STX / T, Shell Donax TD 10W-30 / TC 30, Shell Hydrau HV, Shell Rimula R3 10W
Power Shift Transmission Oils	Shell Donax TD 10W-30 / TC 30, Shell Rimula R3+ 30 / R3 X 15W-40
Transfer Gear, Differential, and Final Drive Oils	Shell Spirax ASX 75W-90 / AX 80W-90 / A 80W-90, Shell Donax CFD
Greases	Shell Retinax SDX 2 / HD 2 / HDX 2 / EP 2



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