Challenge:
The customer was replacing greased iron Peak Cap End Bearings twice a year in the Grit Tanks due to excessive bearing wear running against a steel shaft. Each Grit Tank required 4 small and 2 large bearing assemblies.

The cost for the greased iron bearings and labor to maintain these bearings are as follows:

- Cost of 6 iron bearings $ 5,000.00
- Cost of Labor (US$15/hour @24 hours) $ 360.00
- Sub-total $ 5,360.00
- **Annual Cost (twice per year)** $10,720.00

Solution:
After Thordon reviewed the operating conditions and environment, Thordon SXL bearings were recommended for the peak cap end bearings.

SXL bearings offer:
- Low friction suited to slow speed shaft operating conditions
- Excellent resistance to abrasion
- Performs well in wet environment

Results:
Due to the material properties of Thordon SXL, the customer has seen a tremendous return on investment in this application. Thordon SXL bearings have extended the life cycle compared to the original greased iron bearings by a factor of 14:1.

- Cost of 6 Thordon SXL bearings $ 1,945.00
- Cost of Labor (US$15/hour @24 hours) $ 360.00
- Sub-total $ 2,305.00
- **Annual Cost** $2,305.00

Savings to customer over the first 7 years:
- Iron bearings $75,040.00
- SXL Bearings $2,305.00
- **Total Savings** $72,735.00