

CASE STUDY

TEC Plex
HIGH-PERFORMANCE GREASE

1460

**EXTREME DUTY GREASE PREVENTS
BEARING WEAR FOR STEEL MILLS**

**TEC Plex® 1460 SIGNIFICANTLY
CUTS STEEL MILL MAINTENANCE
TIME FOLLOWING CONVERSION**

**Converting to TecPlex® 1460
saved this steel mill 80 hours of
maintenance time per month.**



THE CHALLENGE

A steel mill located in the Midwest experienced elevated water levels in the Reversing Roughing Mill. The mill removed the work-roll bearings every week for inspection and regreasing using a lithium complex 460 NLGI 1 grease. This labor-intensive process requires four people and an entire day to complete, and one set of reversing mill work-roll bearing costs \$250,000.



THE SOLUTION

Testing was conducted to evaluate how TecPlex® 1460 would perform in the bearing and roll neck. Even with 49.6% water contamination, the study confirmed that TecPlex® 1460 was still present and performing at a higher level in the bearing and the roll neck. The Daubert® team converted the entire hot strip mill over from the lithium complex grease to TecPlex® 1460, taking weekly samples for water content.



THE RESULTS

The new grease has prevented bearing wear with no failures since switching. The mill is estimated to save around 80 hours of maintenance per month, freeing up the maintenance team to address other areas. TecPlex® 1460 has also successfully displaced the water and provided corrosion protection from rust and oxidation. Daubert® continues to take weekly samples for water content.

COST SAVINGS: \$114,000

**REDUCED MAINTENANCE PERSONNEL
COSTS HAVE SEEN THE COMPANY
REPORTING ESTIMATED ANNUAL
SAVINGS OF \$114,000.**

**TEC Plex® PERFORMS IN
HIGH WATER ENVIRONMENT**



Reversing Mill Work
Roll Bearing

Bearing



**TEC Plex® 1460 IS JUST ONE EXAMPLE OF HOW
WE'RE FORMULATING A MORE SUSTAINABLE FUTURE.**
Learn more at DaubertChemical.com.

DAUBERT
CHEMICAL COMPANY, INC.