

Challenges

Two major ERW pipe producers were having a number of issues associated with grease washout and replacement costs and coolant contamination in their ERW mill. Key improvement areas desired by the customer included:

- **Reduce grease washout and coolant contamination**
- **Reduce grease replacement costs**
- **Reduce operating costs**

Providing Solutions

Quaker introduced their QUAKER DYNACHEM LC EP 2, which has excellent resistance to water wash-out and superior rust and corrosion protection. It also has excellent high temperature (dropping point 550°F+), shock-loading (Timken OK 50), and EP protection for heavy loading protection. As a result, both customers were able to save an estimated total of \$5,000 in product costs alone, shown in the following areas:

| Baseline Performance | New Performance |
|---|---|
| Current greases washing out, and current coolant has a high degree of detergency. | Quaker lubricant resulted in a significant reduction in re-greasing and elimination of coolant contamination. Resulting in a cleaner pipe surface prior to welding. |
| Each mill has one person greasing roll bearings full time. | Each mill needs to grease roll bearings once a week, reducing labor costs 80%. |
| Current operating costs not given. | Customer stated that since switching to Quaker lubricant operating costs have been reduced by 50%. An estimated saving of \$5,000. |

Applications

ERW forming and sizing roll bearings.

Product Description

QUAKER DYNACHEM LC EP 2 is premium lithium complex grease formulated with high quality base oils superior rust and oxidation inhibitors as well as extreme pressure additives. QUAKER DYNACHEM LC EP 2 has proven to be extremely effective as a water-resistant grease and has been marketed extensively in areas where water-washout is a major concern. Of equal importance is the fact that QUAKER DYNACHEM LC EP 2 has a dropping point of 500°F allowing it to perform well at high temperatures.

Product & Process Expertise

Quaker Chemical Corporation is a worldwide developer, producer and marketer of custom formulated Tube & Pipe process chemicals and coatings. From first coil to final cut, Quaker is capable of providing process chemicals for all operations in ERW and Seamless mills, and delivers the in-depth process expertise to help maximize your productivity.

Quaker's product line includes hydraulic lubricants, high-temperature greases, cleaners, forming & sizing coolants, drawing & forming compounds, sawing lubricants, hydrotesting compounds, corrosion preventives and a complete line of high-value coatings (including solvent, water-based and UV coatings).