Metso

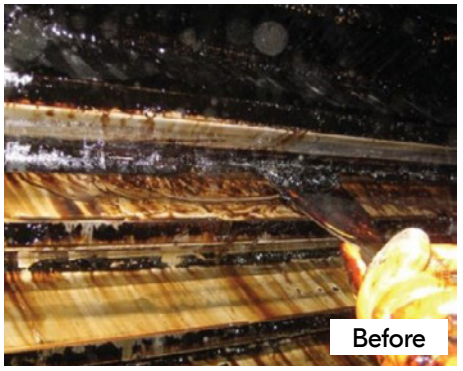
Professional services

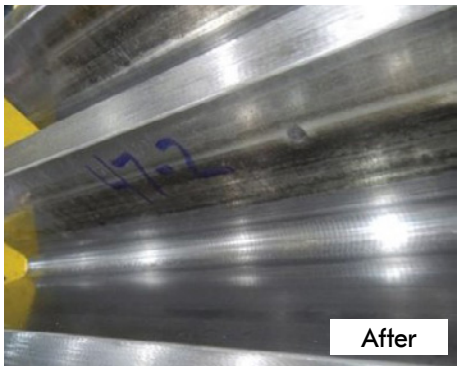
Girth gear cleaning and flushing

Grinding

Minimize downtime by removing contamination and lubricant buildup with Cleansolv products on girth gears before inspections to get a clear view of the condition of the gear as per ASTM E2905 standards.

Elevate gear inspection accuracy with thorough girth gear cleaning. Eliminate contaminants for precise, consistent inspections.





Benefits

- Safely removes contamination and lubrication build-up
- Cleaning performed during production in under 2 hours
- Reduces vibration and noise
- Decreases friction and operating temperatures

The Metso mill gear cleaning process ensures a clean gear removing heavy lubricants and contamination in one step. Metso certified technicians perform this service in under 2 hours with the mill operating using Cleansolv products.

Unlocking the power of Cleansolv

The cleaning fluids are specifically formulated with a proprietary blend of EP additives, light oil, and solvents ensuring protection and longevity of the gear teeth.

The significance of girth gear cleaning, particularly when paired with Digital Gear Inspections (DGI), cannot be overstated. By eliminating the accumulation of contaminated lubricant, we mitigate variations in lift-off for the inspection probe, thereby enhancing sensitivity and consistency throughout the inspection process.

Understanding the lift-off effect

One major hurdle in digital inspections is sensitivity to the lift-off effect, where changes in the distance between the probe and gear flank impact mutual inductance. These variations stem from varying lubricant thickness, surface irregularities, or operator movement.

Variations in lift-off compromise the sensitivity of the inspection probe, leading to inconsistent data collection throughout the inspection process. This lack of consistency hinders repeatability in subsequent inspections, making it difficult to identify trends.

Minimizing the impact of the lift-off effect is crucial for accurate readings. Clean gear teeth is therefore critical to achieving accurate and consistent data.