

# Gearbox Temperature Reduction

## Situation:

A major paper manufacturer was experiencing unacceptable wear and out-of-cycle maintenance issues with a gearbox. The issue was root-caused to critical temperatures in the gearbox during continuous operation.

The manufacturer was seeking a solution to lower gearbox temperatures by >10% without installing external cooling equipment



## Testing:

Comparison testing of two gearboxes (Radicon and Cleveland) with and without **DICRONITE<sup>®</sup>** dry lubrication was conducted.

- Speed: 479 FPM (600 FPM max)
- Timeframe: 27 days continuous running

## Results:

Operating temperatures were reduced by 16% (22°F) in the Radicon gearbox and 12% (18°F) in the Cleveland gearbox, exceeding the engineering requirement.

**DICRONITE<sup>®</sup>** was incorporated as part of plant engineering requirements

