

## Saw Mill Lubricants: 60% Decrease in Overall Consumption

BINOL BAND 20 AND BIOSAFE CON 46

### The Challenge

- A lumber producer was looking for a more environmentally-friendly solution for their timber operations without negatively impacting their production costs
- They were also looking for opportunities to increase overall efficiencies by reducing down time and increase equipment life

### The Solution

Quaker Houghton reviewed the operations at the lumber producer and recommended the BINOL BAND 20 cutting lubricant and BIOSAFE CON 46 conveyor chain oil, based on the following parameters:

- BINOL BAND 20
  - Potential for cost reduction from decrease in consumption
  - Engineered lubricant will minimize down time and improve guide life
  - Better environmental profile than diesel & hydraulic oil combination currently being used
- BIOSAFE CON 46
  - Improved operator acceptance over mineral oil currently being used
  - Decreased consumption of chain lubricant
  - Decreased down time as reapplication is required less frequently

### The Product

BINOL BAND 20 is a safe and environmentally acceptable, non-emulsifying cleaning oil manufactured from rapeseed oil based synthetic esters designed for cleaning and lubricating applications of band saws, circular saws and molding equipment in sawmills. The product has been tested against different elastomers and paints used by the leading manufacturers.

BIOSAFE CON 46 is an environmentally acceptable lubricant used for chains and conveyers within sawmills and the paper - and pulp industry. BIOSAFE CON 46 has good lubricating and penetrating properties, both under dry and wet conditions, and gives less friction and wear to the existing components. The product also has very good corrosion protection due to superior lubricating performance. Produced from highly refined vegetable oils. The product can be used in both summer and winter, and is biodegradable and biologically renewable and does not harm the environment.

### The Benefits

Conversion from a combination of 50% diesel and 50% recycled hydraulic oil to BINOL BAND 20 cutting lubricant resulted in:

- 60% decrease in overall consumption
- Reduced downtime due to longer saw & guide life

Conversion to BIOSAFE CON 46 resulted in:

- Reapplication interval decreased from every 2 hours, to more than 2 days
- Reduction in overall consumption and down time
- Improved chain life

### Process and Equipment

PRODUCT TITLE	PRODUCT INFORMATION
Material	White Fir Lumber
Equipment	McGhee Saws