

## Fiberglass (USA)

### Forming Section

### Castrol Tribol SW MWO-20

**ANNUAL SAVINGS: \$ 333,510 over 4 years**

#### THE SITUATION

Company was having to replace chains well before the expected life expectancy.

**Castrol LubeCon was brought in to evaluate the chains and lubrication system**

**Castrol LubeCon was asked to reduce lubricant consumption and extend the life of the chains.**

#### BEFORE

- An inefficient lubrication system was being used to lubricate the chains.
- Oil consumption was 10 gallons per week.
- Expected chain life was 18 months under current conditions.
- Process water was washing lubricant off of the chains.

#### AFTER

- A Castrol LubeCon automatic chain lubrication system was installed.
- Oil consumption was 5 gallons per week with the new system.
- Chain life was pushed out to 48 months.
- Castrol Molub-Alloy SW MWO-20 was used for its ability to resist water wash off.

#### • SOLUTION

- Castrol LubeCon technicians evaluated the current process and developed a plan to reduce lubricant usage and extend the life of the chains.

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## Calculations

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### SAVINGS:

Chain cost: \$60,000

Machine downtime required to replace chain: 30 hours

Downtime production loss cost: \$4,800 per hour

Downtime cost per chain replacement: \$144,000

### BEFORE CASTROL:

#### •Oil Cost:

10 gallons per week X \$4.50/gallon X 48 months = \$9,360 per 48 months

#### •Chain Replacement Cost:

Chain life 18 months = \$60,000/18 = \$3,333 per month = \$160,000 per 48 months.

#### •Lost Production Cost:

\$4,800 per hour X 30 hours X (48 months/18 months) = \$384,000 per 48 months.

### AFTER CASTROL:

#### •Oil Cost:

Five gallons/week X \$15.24/gallon X 48 months = \$15,850 per 48 months.

#### •Chain Replacement Cost:

One chain lasts 48 months = \$60,000 per 48 months.

#### •Lost Production Cost:

\$4,800/hour X 30 hours = \$144,000 per 48 months.

	Before	After
Oil cost:	\$9,360	\$15,850
Chain replacement cost:	\$160,000	\$60,000
Lost production cost:	\$384,000	\$144,000
<b>Total:</b>	<b>\$553,360</b>	<b>\$219,850</b>

**TOTALS: \$553,360 - \$219,850 = \$333,510 over 48 months**

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