

# STANDARD MULTI-STRAND DIAMOND CHAIN INCREASES WEAR LIFE IN LOG DECK

## CHALLENGE ▼

A national logging company, using a competitor’s chain, needed to replace its #160-2 cottered chain roughly every two months due to premature chain breakage. This frequent breakage resulted in 6.5 chain replacements per year at a cost of \$8,000 per downtime incident.

## SOLUTION ▼

As a solution, Diamond Chain recommended its Standard Series chain. Built to the “Diamond Difference” standards, Diamond chain is engineered for optimum performance in the most challenging applications. From materials to post-assembly, the Diamond Difference ensures a high quality, long lasting product.

**Materials** – high quality steel with minimal impurities offers increased tensile and fatigue strength

**Fabrication** – exacting dimensional standards offer optimal performance by ensuring components fit together with engineered precision

**Heat Treatment** – strict atmosphere and quench control optimizes material properties to increase strength, durability, and wear resistance

**Shot Peening** – consistent shot peen intensity and coverage adds a layer of compressive stress that helps components resist fatigue failure when exposed to repeated high loads

**Lubrication** – proprietary lubrication enhances corrosion protection and lessens the effects of friction to increase chain life

**Preloading** – pre-stressing the finished product reduces initial “stretching” to extend chain wear life

## RESULTS THAT MATTER ▼

The switch to Diamond Standard Series chains increased wear life from eight weeks to 26 weeks, saving the company \$43,000 over one year. Additionally, the company is projected to see a savings of \$216,000 over five years.

Chain Life
<b>26 Weeks</b>
Annual Savings
<b>\$43,000</b>

