

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.

TIMKEN 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
26 Weeks
Annual Savings
\$43,000

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, belts, brakes, clutches, chain, couplings, gears and related mechanical power transmission products and services.

Stronger. By Design.



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