

## SUCCESS STORY

# Chain Failure on a Debarker Drive

# \$26,000

IN COST SAVINGS



### PROBLEM

A customer in the sawmill industry was experiencing chain failures on their large log debarker unit. A competitor's RS160 chain was always used on the application, causing weekly downtime as the chain suffered from fractured plates and pins. The chain was repaired weekly and replaced bi-monthly, resulting in approximately four hours of downtime a month. This customer's downtime cost was approximately \$50,000 per hour in lost production.



### SOLUTION

**Tsubaki's Technical Solutions Team** examined the application and concluded that the load applied to the drive was more than twice the recommended maximum allowable load for a RS160 chain. Due to the high load, in combination with the shock load, the chain was subjected to plastic deformation, which led to tensile failure.

The debarker required a chain with high fatigue strength and shock-loading resistance. Tsubaki's **Super Series Chains** have been successful in the past, limiting these factors due to ballized holes, hardened pins, and wider link plates. Thus, the **RS160 SUPER™** was recommended.

**Although the new chain was twice the price of the competitor's, Tsubaki's RS160 SUPER ran for 160 days compared to 14 days, and saved the customer over \$26,000 in chain replacement costs, excluding any loss production.**