BSC
BEARING & POWER TRANSMISSION SOLUTIONS

Case Study

Root Cause Analysis

BSC
ENGINEERING SERVICES

INDUSTRY

Food Industry

APPLICATION

Capping Machine

PROBLEM

The main capping machine was experiencing extreme belt wear on the capping machine drive. This belt was requiring maintenance weekly to ensure the belt wouldn't fail in use. The client was installing a new belt every two weeks to ensure ongoing machine reliability. The drive belt being used, 10T2000-50, was correct for the machine at time of manufacture. The wear on the pulleys had changed the profile of the pulleys such that the 10T profile was no longer a snug fit. The belt being used was changed to an incorrect type to try and get the machine to work. Extra tension was put on the drive components in an effort to get this to work.

SOLUTION

BSC inspected the drive and it was found to have extremely worn pulleys. The pulleys were a special type for the machine; new pulleys were machined and supplied. The belt re-supplied was the standard belt previously used and will offer a life of 12 months before replacement.

BENEFIT

It Is estimated that the machine was costing an extra $11,000 annually in lost production and constant maintenance. Root Cause Analysis saves Client $11,000 PA and solves "Continuous Reliability" problem.

Sustainability Solutions