
Case Study

Centrifugal Separator



CERAMICSPEED

Costly overhauls reduced by a factor 3

The separators are key equipment in the dairy industry, where they typically perform the first separation of raw milk into sub components.

Problem

The centrifugal separators are on the list of critical equipment and have historically been serviced according to a strict one-year schedule at relatively high cost. Standard bearings had a hard time with water intrusion and following mixed lubrication conditions.

Solution

To reduce cost without compromising reliability, a plan containing both CeramicSpeed bearings, and Optimize condition monitoring equipment was executed.

Result

The solution is now running past the targeted 3 years and with the online monitoring system securing early warning on beginning bearing failures. The equipment will be run until the true bearings life to the benefit on both production capacity and MRO cost.

Technical Highlights

- Harsh environment with risk of water intrusion and following mixed lubrication conditions
- Bearing temperature: 40-60°C
- Lubrication: Oli

