

Food Processing Pump

Seal Position: **Bearing Frame**

Industry: **Food and Beverage**

Challenge

Excessive contamination from the surrounding process and a leaking stuffing box consistently caused premature bearing failure on a food processing pump. The OEM rotary lip seals could not prevent contamination from entering the bearing housing, which caused catastrophic equipment failure in as little as a month.

The bearing frame failures would require shutdown of the process to remove and replace the frames, resulting in costly downtime.

Solution

Inpro/Seal Bearing Isolators were installed on both ends of the bearing frame. The Inpro/Seal Bearing Isolator is a non-contacting bearing seal that permanently protects against contamination ingress and lubrication loss. Due to its non-contacting design, the Inpro/Seal Bearing Isolator has no wearing parts, lasting the lifetime of the equipment.

Result

Bearing frame life increased to over two years and running. Due to the increased performance on their pump bearing frames, the plant has targeted additional assets for Inpro/Seal Bearing Isolator upgrades.



Significant contamination around this food processing pump challenged bearing life due to constant contamination ingress.



Inpro/Seal Bearing Isolator



An installed Inpro/Seal Bearing Isolator in service for multiple years still performing with no issue.