

## Challenge

### Issue

A white liquor return pump bearing housing was leaking oil due to the OEM oil seal fretting the shaft. The customer has to disassemble the pump regularly to replace the shaft and seal.

### Root Cause

Shaft wear due to the OEM oil seal which causes the oil to leak.

### Goal

Prevent shaft wear by using innovative sealing solutions, limiting oil leaks.



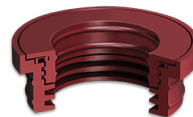
## Solution

### Overview

Pump manufacturer: Kawano Zoki  
Solution provided:  
PLS TYPE1 AWC800  
Drive side: 40 x 62 x 11  
Reverse drive side: 45 x 68 x 12

### Chesterton® PLS—Polymer Labyrinth Seal

Made from Chesterton's proprietary polymer material technology, the Chesterton, patent-pending Polymer Labyrinth Seal (PLS) is a non-contact bearing seal designed to provide protection for pumps, motors, gearboxes, and other rotating equipment in splash applications. The unique design eliminates fretting caused by conventional lip seals, and helps increase bearing and gearbox life by extending the mean time between equipment repairs.



Chesterton®  
Polymer Labyrinth Seal

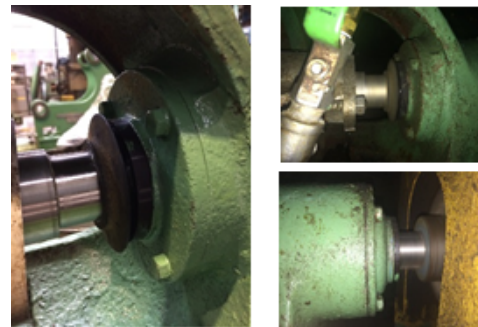
## Results

### Client Reported

The Chesterton PLS was installed in February 2016 and is still operational without any problems or maintenance needs. Previously, pump maintenance was performed every two years, but after installing Chesterton Polymer Labyrinth Seal in 2016, no maintenance is required.

### Featured Material

AWC800 Elastomer Material Proprietary, Wear-Resistant Urethane. Chesterton's premium-grade thermoset polyurethane, AWC800, is designed for high performance sealing in hydraulic, pneumatic and static applications.



## About

Chesterton® is a world leader in helping process industry companies and manufacturers improve the reliability and efficiency of their rotating, stationary, and fluid power equipment platforms. We are known across a wide range of industries for our award-winning pump and valve sealing solutions, applications expertise, equipment maintenance and wear-prevention products, and knowledgeable hands-on local service.

Chesterton® products are available in Asia Pacific through our official Chesterton Distributors Partners' Channel

## Chesterton Customseal

Chesterton Customseal is a joint venture between A.W. Chesterton Company and Customseal Australia.

For over 135 years, Chesterton® has been recognised as a leading international manufacturer of industrial fluid sealing systems and industrial process industry applications. Customseal Australia has been operating for over 15 years now, building an incredible reputation servicing the hydraulic and pneumatic needs for many clients across numerous industries throughout the Asia Pacific Region.

Chesterton Customseal provides our clients with innovative solutions in high-performance seals, combining the strong capabilities of two brands in one product.

Our professionalism and highly engineered capabilities guarantee our clientele world-class products and support.

[chestertoncustomseal.com.au](http://chestertoncustomseal.com.au)

## Training

Continual development of personnel is one way of attracting and retaining a capable workforce, and it is an area which receives a great deal of attention from Chesterton.

We regard training as a value adding product which delivers tangible benefits, both short and long term. Appropriate training ensures the correct use of equipment which will deliver longer life for the lowest overall total cost of ownership, and a rapid return on your training investment.

**Contact us to know about our latest training schedule.**

## Channel Partners

In addition to its direct sales and service efforts, Chesterton has a large, established network of more than 500 authorized, independent, company-owned distributors in over 113 countries. These distributors have extensive experience in the industries we serve and provide exceptional local service and applications consulting using only genuine Chesterton products and parts. All Chesterton distributors receive extensive and on-going training in:

- Pump and mechanical sealing systems
- Valve stem and flange sealing
- Fluid power sealing and efficiency
- Industrial coating selection and surface preparation
- Industrial lubrication for plant maintenance and reliability

Chesterton distributors are backed by our own field teams and sales/support staffs as well as engineering applications and engineering teams to ensure the best customer experience possible.

Mentioned in the case study:

**Meidi-Ya - Tokyo**

Exclusive Distributor of Chesterton products

Location: Japan