

Challenge

Issue

The customer uses a traditional OEM lip seal that results in serious oil leaks over time.

Root Cause

The lip seal is causing shaft fretting and therefore oil leaks.

Goal

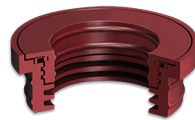
Find a sealing solution that reduces friction, reduces shaft fretting and eliminates oil leakage and the constant need for further shaft repair.



Solution

Overview

The equipment bearing cover was modified and a Chesterton Polymer Labyrinth Seal PLS TYPE2 installed. The PLS is inserted inside the bearing cover and despite the limited space, was installed with minimal effort.



Chesterton®
Polymer Labyrinth Seal

PLS: TYPE2 AWC800 44.5 x 65 x 11 mm

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.

Results

Client Reported

Since installation in June 2015, there have been no oil leakage. With the conventional sealing method, the oil lips are replaced every three years. By switching to PLS, we have drastically reduced the maintenance costs.

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

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