

## Challenge

### Goal

- Convert a Worthington VTP Hotwell Pump from packing to a **Chesterton 442™ Split Seal**. Years of leakage had damaged the face of the stuffing box face. The shaft was also severely pitted.

### Background

- Sealing the **Chesterton 442** gland to stuffing box face, and seal sleeve to pump shaft was not possible due to the pitting corrosion.



Condensate leaking from the Hotwell Pump had corroded the shaft and pump face.

## Solution

### Product

- Since the pump could not be removed for machining of sealing surfaces, a split adapter plate was used to create a “new” stuffing box face and position the seal to a “clean” area of the shaft.
- Chesterton 860™ Moldable Polymer Gasket (MPG)** was used to seal the adapter plate halves and the plate to the damaged stuffing box face.
- The unique 2-component, non-adhesive technology made a complete cure, even through thick sections and across the wide flange.



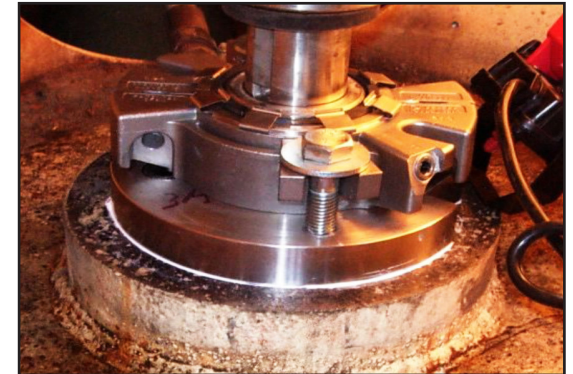
Chesterton 860 MPG cures to form a perfect “form In place” gasket to seal the adapter plate.

## Results

- Chesterton 860 MPG** reduced the time to convert the pump from packing to the **Chesterton 442 Split Seal** to 8 hours.
- Pump conversion required no disassembly, machining or new pump parts.

Estimated costs to rebuild:	\$28,200
Chesterton actual costs:	\$ 1,125
Seal plate:	\$ 500
<b>Chesterton 860 MPG:</b>	<b>\$ 175</b>
Labor:	\$ 450
Total savings:	\$27,075

\$=USD



Repaired and leak-free sealing with Chesterton’s 860 MPG and Chesterton 442 Split Seal.