

# VIBRATION KILLS PUMPS.

WE KEEP THEM UP AND RUNNING.

THERE ARE MANY REASONS FOR PUMP FAILURE.  
LET LOCTITE SHOW YOU HOW TO PREVENT THEM.



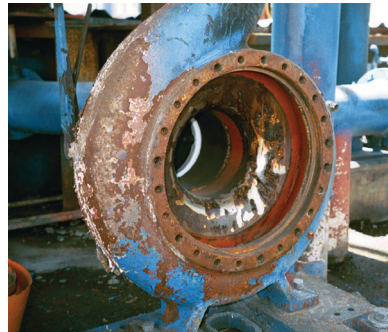
#### MISALIGNMENT

Loosening of pump base mounting bolts can lead to bearing failure.



#### LEAKS

Gaps and surface irregularities in threaded assemblies and flanges can lead to leaks that diminish pump performance.



#### WEAR

Erosion due to abrasion, corrosion or chemical attack.

LOCTITE has the global technical expertise and sealant and adhesive technology to make sure your pumps perform better, longer.

VISIT US AT [WWW.XXXXXXX.COM](http://WWW.XXXXXXX.COM) FOR MORE INFORMATION, OR CALL US AT XXXXXXXXXX.

# LOCTITE®

# LOCTITE®

# PUMP REPAIR & REBUILD WORKSHOP.

All marks used are trademarks and/or registered trademarks of Henkel and/or its affiliates in the U.S. and elsewhere. ® = registered in the U.S. Patent and Trademark Office. © 2018 Henkel Corporation. All rights reserved.

Henkel

# LOCTITE. SOLUTIONS FOR ALL YOUR MAINTENANCE CHALLENGES.

**YOUR CHALLENGES. OUR SOLUTIONS. YOUR BENEFITS.**

LOCTITE is more than quality products – we provide solutions to many of the biggest challenges you face. Let us put our expertise to work for you.

## MAINTAIN, REPAIR, REBUILD AND PROTECT INDUSTRIAL EQUIPMENT.

Maximizing your production, minimizing unplanned downtime, and preventing equipment failures are critical in every industry. Unreliable pumps can lead to lost time, expensive repairs, and safety issues that can seriously affect your bottom line.

We understand the challenges you face because we have long-term experience maintaining industrial equipment. LOCTITE is the trusted partners of industries around the world to help reduce costs, increase reliability and improve efficiency.

## LOCTITE PUMP REPAIR & REBUILD



**DESIGNED BY HENKEL CORPORATION TO ENHANCE MAINTENANCE TECHNIQUES, SOLVE COMMON FAILURES AND IMPROVE PUMP RELIABILITY, THE WORKSHOP IS FOCUSED TOWARDS PERSONNEL WHO ARE RESPONSIBLE FOR PUMP MAINTENANCE AND RELIABILITY.**

Most industrial centrifugal pumps carry a significant capital equipment value and therefore it is important to extend their useful lives and ensure that they run efficiently and reliably. Proactive maintenance can reduce the risk of breakdowns, increase pump reliability and longevity, and extend the mean time between failure (MTBF).

By applying the identified product solutions and techniques learned in a Loctite Pump Repair & Rebuild Workshop, your personnel will have the knowledge and the tools to do the following:

- Increase pump reliability
- Extend MTBF
- Prevent common failure modes
- Increase pump efficiency and ensure that pumps run closest to their best efficiency point (BEP)
- Eliminate leaks
- Repair erosion damage and protect against chemical attack
- Ease disassembly of parts, ensuring consistent disassembly
- Reduce component consumption
- Ensure that alignment is maintained
- Prevent seizure of critical components
- Restore and rebuild parts

## LOCTITE PUMP REPAIR & REBUILD WORKSHOP FEATURES:

- Review of Common Pump Failures
- Identification of LOCTITE Solutions
- Review of LOCTITE Technologies
- Hands-on Demonstration
- Product Selection Criteria



## LOCTITE PUMP REPAIR & TRAINING OUTLINE

### BEARING FRAME AND HOUSING

- Seal against oil leaks and seepage
- Prevent seizing of bolts
- Prevent bearing damage and failure from
  - Spinout
  - Corrosion

### FRAME ADAPTER

- Prevent flange leaks
- Prevent seizure of dowel pins
- Prevent gasket failures
- Prevent loosening of frame adapter bolts
- Misalignment

### GLAND ASSEMBLY

- Prevent seizure of packing gland nuts
- Prevent corrosion, seizure or loosening of gland studs
- Prevent seizure of flushing connectors
- Prevent flushing connector leaks

### PUMP CASING

- Prevent the frame adapter, stuffing box and casing from seizing together
- Prevent leaks between the stuffing box and casing
- Prevent seizure or loosening of casing bolts

### IMPELLER

- Prevent seizure of the impeller to the shaft

### KEYWAY/KEY STOCK

- Prevent and stop key wallow
- Repair key wallow damage

### COUPLING

- Prevent coupling failures that lead to:
  - Loosening
  - Loss of power transmission
  - Shaft damage

### PUMP BASE MOUNTING

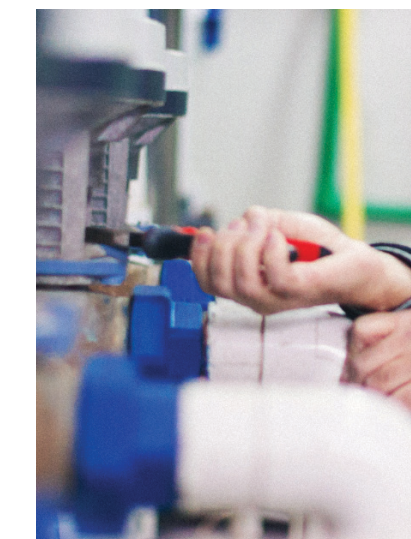
- Prevent pump mounting bolts from losing clamp load

### PUMP BASE GROUTING

- Prevent damage caused by twisting, vibration and corrosion of the pump base

### CASING/IMPELLER WEAR

- Rebuild and restore worn areas
  - Minor abrasive wear
  - Heavy casing wear
  - Chemical attack and erosion
  - Specific high-wear area repairs



### SHAFT WEAR

- Restore worn shafts caused by:
  - Packing
  - Oil seals
  - General neglect

### PREVENT CORROSIVE ATTACK

### ALL TRAINEES RECEIVE A FREE COPY OF THE INDUSTRIAL PUMPS REBUILD AND MAINTENANCE GUIDE

A comprehensive guide developed to assist maintenance personnel in achieving their goals of pump reliability, longevity and cost reduction.