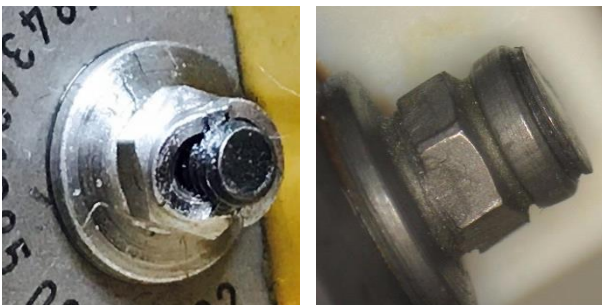




## Reclaim Increase of 400% for Cam Followers

Our client's current process for disassembling Cam Followers from a 6.0L High Pressure Oil Pump yielded a reclaim rate less than 20%. The cam follower is one of the most expensive components of the pump running at \$4 each. Carrus Group worked with the engineering team to find the root cause for the low reclaim, then created and test a new process for disassembly which yielded a new reclaim rate of 98%.

Total savings amounted to over \$104,000 annual savings based on their current annual production volumes.



## \$445,000 annual BOM and Warranty reduction.

Our client was remanufacturing this component to OEM spec. This resulted in inconsistent parts, high levels of scrapped parts, low first pass yield and high warranty claims. Carrus Group was retained to audit the process and perform torque and assembly test to establish a bench mark. Current process yield 65% of the failed solenoids were non-recoverable due to a faulty assembly process resulting in large scrape volumes.

The new torque and cold forming process was tested with success. It's replacement of a crimping method drastically reduced the failure rate.

Utilizing this new process created an annual saving of \$45,000 in scrapped parts and \$390,000 annual reduction in warranty claims.

## Key Points

- Cross Reference Cost of Components with worse Reclaim Rates
- Optimize Process
- Proper testing of new process
- Evaluate engineering design (new product development)
- Reduce Warranty Cost
- Less Rework
- Lower Failure Rate

## Our Method

- Evaluate ALL Materials and Processes
- Assess support procedures
- Engage client in testing recommended changes
- Document Changes and Implement New Procedure
- Continuous Improvement

## Annual Savings

**\$104,000 – Part Reuse**  
**\$45,000 – Scrap Savings**  
**\$390,000 – Warranty Claims**

## Customer Contact

**Bill Rutecki – VP – Operations**  
**wrutecki@dieselforward.com**