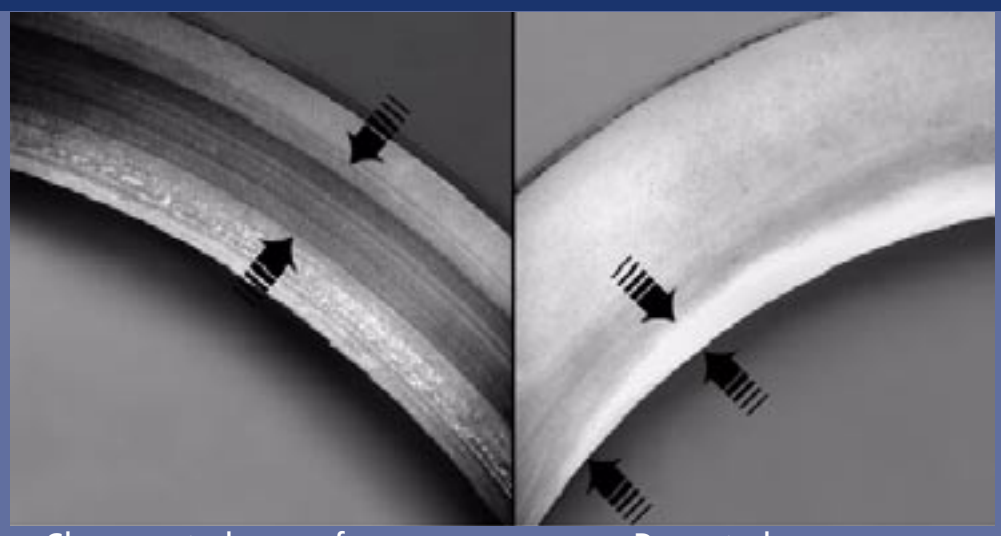
# When the pump fails!

## ROTATING MECHANICAL SEAL FAILURE SYMPTOMS

# Symptoms of wear marks:

## Decentral wear mark

**4a12**



Clean central area of wear | Decentral wear

- Symptom
  - Decentral wear over the wide surface
- Causes
  - (Rotating) seal not centered correctly
  - Radial run-out
  - Operated outside of best degree of efficiency, vibration
- Types of failure
  - Incorrect installation
  - Condition of system
- Solutions
  - Check the bearings for run-out
  - Check installation technologies
  - Check the system for concentricity / adjustment between shafts and seal chamber