

Gardner Denver Nash Failure Analysis



Corroded Rotor Taper

Failure Due to Corrosion

Corrosion can be caused by low pH seal water or carryover, and can reduce pump life cycle dramatically

Possible Causes

Seal Water

- Low pH seal water
 - Recycled seal water with low pH build up
 - Seal water mixing with corrosive carryover, forming a corrosive mixture
- Example: $\text{H}_2\text{O} + \text{SO (sulfur)} = \text{SO}_2$

Carryover

- Vapors from inlet gases can cause corrosion

Acid Washing

- Improper acid washing procedures

Possible solutions

Seal Water

- Maintain correct pH level of 7
- Maintain and treat seal system
- Stop corrosive carryover

Carryover

- Eliminate gases source
- Neutralize gases before entering pump

Acid Washing

- Follow Nash acid washing procedures

If you have any further questions or would like more information, please contact the number at right.

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