

Gardner Denver Nash Failure Analysis



Erosion damage to rotor

Erosion Failure

Failure due to erosion is evident in various areas of the pump. Wear could cause extensive damage if it goes undetected. Sources of erosion are pump inlet and seal water supplies.

Possible Causes

Seal Water Supply

- Solids in seal water
- Lobe purges plugged

Pump Inlet

- Solids/abrasives in inlet stream
- Pre-separator not working
- Lobe purges plugged

Possible solutions

Seal Water Supply

- Check water for suspended solids
- Check lobe purge piping for plugged lines

Pump Inlet

- Check inlet stream for suspended solids
- Check pre-separator water removal pump
- Check lobe purge piping for plugged lines
- Perform periodic borescope inspections to monitor wear

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

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