

Gardner Denver Nash Failure Analysis



Typical Bearing Failure

Bearing Failure

Most bearing failures are not caused by a bearing manufacturing defect. Bearing failure mode is usually caused by lubricant breakdown or above-normal bearing loads.

Possible Causes

Lubrication

- Incorrect seal water (liquid compressant) rates
- Incorrect grease
- Excess Grease
- Insufficient Grease
- Contamination of grease
- Mixing Grease types

Pump Installation

- Shaft Alignment
- "Soft" pump foot
- Piping stress

Improper previous bearing repair

- Shafts were repaired/machined in place
- Bearing was re-used after repair
- Proper bearing installation was not followed

Possible solutions

Lubrication

- Use GDN recommended grease - refer to manual
- Do not over-grease
- Check grease at 6 month intervals
- Monitor packing leakage
- Be sure refill grease is same as existing grease

Pump Installation

- Check coupling alignment - to specs
- Check for soft foot - pump properly shimmed
- Check for equal seal flow to each side of pump
- Eliminate piping stress - when inlet is disconnected - no misalignment
- Monitor bearing temperatures/vibration weekly

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

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