CONVEYOR AND EQUIPMENT
HEALTH ASSESSMENTS

DESIGN SYSTEMS, INC.

Manufacturing Engineering & Consulting

Conveyor and Equipment Health Assessments

Health Assessments (also known as Longevity Analysis) of your manufacturing systems including conveyors, process tooling and other equipment can be one of the best investments to minimize lost production and costs associated with catastrophic failures.

A health assessment pays for itself by allowing you to anticipate failures and proactively plan remediation. It also assists in supporting a preventative maintenance program when performed annually.

Design Systems, Inc.'s teams of engineering specialists can quickly assess your plant equipment for potential failures with no disruption to your production.

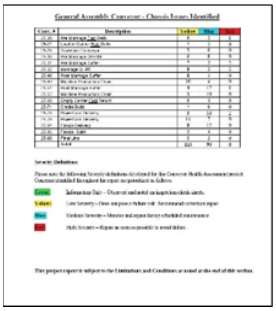
Roller severely damaged requiring replacement

Visual and Physical Assessment of Components

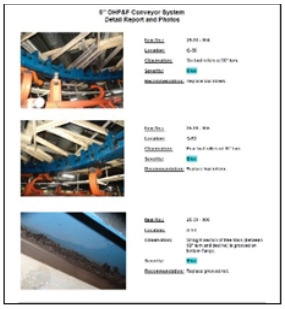
- Drive and take-up inspections
- Motors and gearboxes
- Conveyor track wear
- Chain wear
- Lubrication equipment inspections
- Roller condition
- Traction wheel turns
- Vertical drop lifters
- Transfers
- Safety devices

REPORT DELIVERABLES INCLUDE:

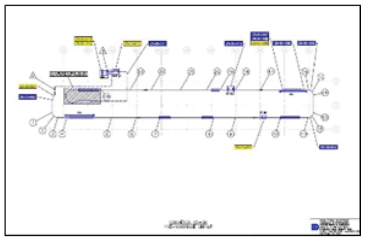
- Summary of total quantity and severity of issues found.
- Detail report listing issues, severity, and recommended corrective action.
- Digital photos of problematic areas.
- System layout showing location of issue found.
- Option for maintenance work order generation.



Exectutive Summary Sample



Detail Report Sample



System Layout Sample

Additional Services Available

- Infared Surveys
  - Conveyor Drives
  - Motors
  - Gearboxes / Reducers
  - Bearings
  - Electrical Panels
- Oil Analysis
  - Conveyor Drives
  - Gearboxes / Reducers
- Strain Gauge Analysis
  - Provides detailed analysis of chain tension
- Electrical / Controls Health Assessments
- Paint Finishing Systems Health Assessments

Tools

- Digital camera
- Infrared camera
- Calipers
- Conveyor Gap measurement gauge
- Strobe light for high speed devices
- Electronic ultrasound thickness gauge

"BOTTOM-LINE" RESULTS

- Reduce unplanned downtime
- Minimize maintenance overtime
- Planned response to potential failure
- Improve useful life of equipment
- Improve energy efficiency

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