

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:

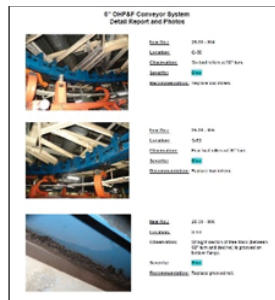
- Summary of total quantity and severity of issues found.
- Detail report listing issues, severity, and recommended corrective action.
- Digital photos of problematic areas.
- System layout showing location of issue found.
- Option for maintenance work order generation.

Additional Services Available

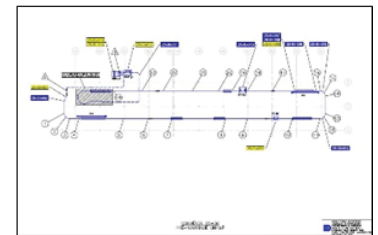
- Infrared Surveys
 - Conveyor Drives
 - Motors
 - Gearboxes / Reducers
 - Bearings
 - Electrical Panels
- Oil Analysis
 - Conveyor Drives
 - Gearboxes / Reducers
- Strain Gauge Analysis
 - Provides detailed analysis of chain tension
- Electrical / Controls Health Assessments
- Paint Finishing Systems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

Item #	Description	Status	Notes
1.1	Conveyor Drive Motor	Pass	
1.2	Conveyor Drive Gearbox	Pass	
1.3	Conveyor Drive Bearings	Pass	
1.4	Conveyor Drive Electrical Panel	Pass	
1.5	Conveyor Drive Chain	Fail	Chain tension out of range
1.6	Conveyor Drive Roller	Fail	Roller severely damaged
1.7	Conveyor Drive Traction Wheel	Pass	
1.8	Conveyor Drive Vertical Drop Lifter	Pass	
1.9	Conveyor Drive Transfer	Pass	
1.10	Conveyor Drive Safety Device	Pass	

Executive Summary Sample



Detail Report Sample



System Layout Sample

"BOTTOM-LINE" RESULTS

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

CONVEYOR AND EQUIPMENT HEALTH ASSESSMENTS

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