

DEMONSTRATION SAMPLE - FICTIONAL INFORMATION - NOT A CLIENT REPORT

FACTORY MAINTENANCE HEALTH ASSESSMENT

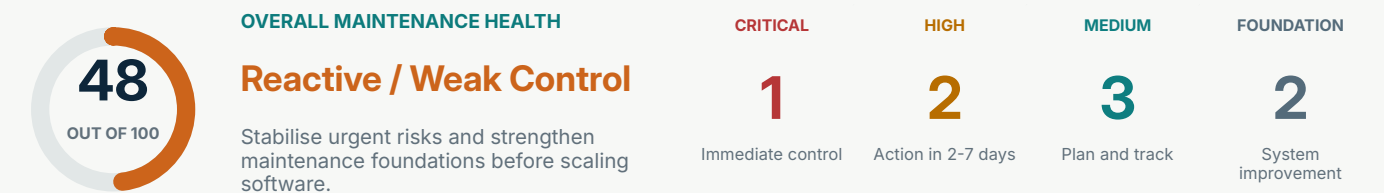
# Management Decision Report

Demonstration Food Processing Facility | Uganda

A concise executive view of machinery condition, maintenance controls, risk, evidence and the next 30 days.



|                 |                      |             |                       |
|-----------------|----------------------|-------------|-----------------------|
| REPORT          | ASSESSMENT           | READ TIME   | PREPARED BY           |
| PT-MHA-DEMO-001 | Demonstration sample | 2-5 minutes | Profilio Technologies |



PRIMARY MANAGEMENT DECISION

Control the conveyor guard exposure, verify the dryer fan bearing condition and scope the process-water pump repair before digitising maintenance.

TOP PRIORITIES

|    |                                                                                                            |            |
|----|------------------------------------------------------------------------------------------------------------|------------|
| 01 | <b>Conveyor drive guard</b><br>Restrict access and restore secure fixing before release.                   | 0-24 hours |
| 02 | <b>Dryer circulation fan</b><br>Inspect lubrication, alignment and vibration; establish a monitored trend. | 2-7 days   |
| 03 | <b>Process-water pump</b><br>Plan seal replacement and verify sleeve, alignment and required spares.       | 2-7 days   |

RECOMMENDED SEQUENCE

|    |             |                                   |
|----|-------------|-----------------------------------|
| 01 | 0-24 hours  | Contain immediate exposure        |
| 02 | 2-7 days    | Verify condition and repair scope |
| 03 | Weeks 2-4   | Organise assets, PM and controls  |
| 04 | After gates | Pilot the client-branded CMMS     |

WHAT SUCCESS SHOULD LOOK LIKE AFTER 30 DAYS

- 1 Critical exposure controlled and verified
- 2 Repair scopes supported by readings
- 3 Pilot assets and PM tasks approved
- 4 Open actions visible to management

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WEIGHTED ASSESSMENT

How the overall score was calculated

Each area is marked from 1 to 5 and weighted by its influence on maintenance control.

| Assessment area        | Weight | Control score              | Weighted | Status                  | Evidence                                                                            |
|------------------------|--------|----------------------------|----------|-------------------------|-------------------------------------------------------------------------------------|
| Machinery condition    | 20%    | <div><div></div></div> 60% | 12.0     | Developing              | Several assets remain serviceable, but three defects require controlled follow-up.  |
| Preventive maintenance | 15%    | <div><div></div></div> 40% | 6.0      | Weak                    | Tasks exist but often lack readings, limits, evidence and escalation rules.         |
| Breakdown control      | 10%    | <div><div></div></div> 55% | 5.5      | Developing              | Failures are recorded, but causes and actions are not consistently closed.          |
| Asset register         | 10%    | <div><div></div></div> 50% | 5.0      | Weak                    | Asset names, codes, locations and parent systems are not fully standardised.        |
| Critical spares        | 10%    | <div><div></div></div> 50% | 5.0      | Weak                    | Compatibility and reorder decisions are not tied to asset criticality.              |
| Work-order control     | 10%    | <div><div></div></div> 30% | 3.0      | Critical gap            | Requests, approvals and completion evidence are scattered across channels.          |
| Safety and isolation   | 10%    | <div><div></div></div> 65% | 6.5      | Developing              | General controls exist, but the guard finding requires immediate correction.        |
| Management reporting   | 5%     | <div><div></div></div> 35% | 1.8      | Weak                    | Backlog, repeat failures, downtime and risk are not reviewed together.              |
| CMMS readiness         | 10%    | <div><div></div></div> 35% | 3.5      | Foundation first        | Data and workflow foundations should be verified before a software rollout.         |
| OVERALL SCORE          | 100%   | <div><div></div></div> 48% | 48.3     | Reactive / Weak Control | Immediate controls plus a focused maintenance-foundation programme are recommended. |

EXECUTIVE INTERPRETATION

The factory has capable maintenance activity, but weak information flow and inconsistent closure evidence.

The fastest value comes from controlling urgent defects, verifying one pilot asset area, rewriting selected PM tasks around measurable standards and introducing a visible monthly review routine.

CONTROL BANDS

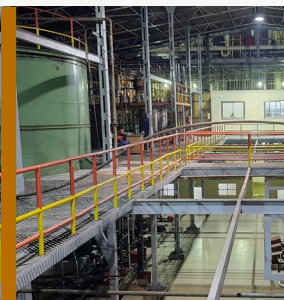
- 0-39Critical gaps
- 40-54Reactive / weak
- 55-69Developing
- 70-84Controlled
- 85-100Optimised

48/100 falls in the reactive / weak-control band.

EVIDENCE-LED FINDINGS

# What was found, why it matters and what closes it

The three executive findings are shown with illustrative images. Live reports use approved site evidence.

|                                                                                                                                                |                                                                                                       |                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                                                               | <div>F-01 Critical</div> <h3>Conveyor drive guard</h3> <div>0-24 h</div>                              |                                                                                                                          |
| <div>OBSERVATION</div> <p>Guard fasteners are loose and the guard can move toward the rotating drive.</p> <p>Owner: Maintenance Supervisor</p> | <div>IMPACT</div> <p>Possible personnel exposure and uncontrolled production interruption.</p>        | <div>REQUIRED CONTROL</div> <p>Restrict access, isolate for repair, restore secure fixing and verify before release.</p> |
|                                                              | <div>F-02 High</div> <h3>Dryer circulation fan</h3> <div>2-7 d</div>                                  |                                                                                                                          |
| <div>OBSERVATION</div> <p>Bearing housing temperature is rising and no recent vibration record is available.</p> <p>Owner: Mechanical Lead</p> | <div>IMPACT</div> <p>Progressive bearing damage may escalate to fan failure and secondary damage.</p> | <div>REQUIRED CONTROL</div> <p>Inspect lubrication and alignment, take vibration readings and establish a trend.</p>     |
|                                                             | <div>F-03 High</div> <h3>Process-water pump</h3> <div>2-7 d</div>                                     |                                                                                                                          |
| <div>OBSERVATION</div> <p>Mechanical-seal leakage is active and temporary containment is in use.</p> <p>Owner: Mechanical Lead</p>             | <div>IMPACT</div> <p>Leakage may worsen, damage components and interrupt process water.</p>           | <div>REQUIRED CONTROL</div> <p>Plan seal replacement; inspect shaft sleeve, alignment and required spares.</p>           |

SUPPORTING REGISTER

The remaining findings are concise system-improvement actions.

| ID   | Area                 | Finding / required control                                                                                                                                                          | Owner                    | Due    |
|------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|
| F-04 | Selected PM tasks    | Checklists use generic instructions without measurable limits or escalation criteria. Action: Rewrite pilot tasks around readings, limits, evidence and supervisor review.          | Maintenance Supervisor   | Week 2 |
| F-05 | Critical spares      | Spare descriptions and reorder decisions are not consistently linked to verified assets. Action: Create an asset-linked critical-spares list with compatibility and reorder fields. | Stores + Maintenance     | Week 3 |
| F-06 | Breakdown records    | Failure causes, corrective actions and verification are not always closed together. Action: Introduce a controlled defect-to-closure register with owner and evidence.              | Maintenance Supervisor   | Week 2 |
| F-07 | Asset register       | Codes, locations, parent systems and criticality are inconsistent. Action: Verify one pilot production area and approve the asset hierarchy.                                        | Maintenance + Production | Week 3 |
| F-08 | Management reporting | Downtime, backlog, repeat failures and open risk are reviewed separately or informally. Action: Introduce a monthly review pack and recorded action decisions.                      | Plant Management         | Week 4 |

Closure rule: work is not closed because activity started. Closure requires agreed evidence, verification and a recorded residual risk or follow-up action.

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CONTROLLED FIRST MONTH

Actions, owners and proof of completion

Every action must create visible evidence for management review.

EXECUTION TIMELINE

MANAGEMENT DECISIONS

|   |            |                                                                                   |       |                          |       |                                                            |
|---|------------|-----------------------------------------------------------------------------------|-------|--------------------------|-------|------------------------------------------------------------|
| 1 | 0-24 hours | Restrict or isolate F-01 and verify temporary control of F-03.                    | OWNER | Maintenance Supervisor   | PROOF | Photo, isolation record and authorised release.            |
| 2 | 2-7 days   | Inspect fan bearing, pump seal, alignment, lubrication and required spares.       | OWNER | Mechanical Lead          | PROOF | Readings, inspection record, parts list and work scope.    |
| 3 | Week 2     | Rewrite selected PM tasks around observable standards and escalation limits.      | OWNER | Maintenance Supervisor   | PROOF | Approved pilot PM sheets with verification fields.         |
| 4 | Week 2     | Introduce a defect and breakdown closure register.                                | OWNER | Maintenance Supervisor   | PROOF | Active register with owner, due date and closure evidence. |
| 5 | Week 3     | Verify asset codes, locations, criticality and parent systems for one pilot area. | OWNER | Maintenance + Production | PROOF | Approved pilot asset register.                             |

|    |                                                  |
|----|--------------------------------------------------|
| 01 | Who may stop or restrict unsafe equipment?       |
| 02 | Which production area becomes the pilot?         |
| 03 | Which findings require specialist support?       |
| 04 | Who reviews overdue critical actions - and when? |

30-DAY CONTROL TARGETS

|      |                           |
|------|---------------------------|
| 0    | overdue critical findings |
| 100% | pilot assets verified     |
| 10+  | measurable PM tasks       |
| 1    | signed management review  |

ACCOUNTABILITY RULE

Each action has one owner, one due period and one proof of completion.

This prevents activity from being mistaken for closure and gives management a clear basis for escalation.

DECISION READINESS

What to stabilise before maintenance is digitised

A CMMS should enforce sound work, verified data and clear ownership - not make weak controls faster.

ASSET CONDITION OVERVIEW

| Asset                    | Score | Status | Next action                                            |
|--------------------------|-------|--------|--------------------------------------------------------|
| Conveyor drive and guard | 2/5   | Poor   | Secure guard, inspect drive and confirm release.       |
| Dryer circulation fan    | 2/5   | Poor   | Condition verification and monitored trend.            |
| Process-water pump       | 2/5   | Poor   | Seal repair scope, sleeve and alignment inspection.    |
| Heat-exchange skid       | 3/5   | Fair   | Confirm cleaning, leak checks and operating limits.    |
| Wash-line conveyor       | 3/5   | Fair   | Verify belt tracking, bearings and guarding checklist. |
| Air compressor           | 3/5   | Fair   | Add pressure, temperature and drain evidence.          |

CMMS READINESS



MANAGEMENT RECOMMENDATION

Close urgent defects, verify one asset area and strengthen PM evidence before a broad software rollout.

READINESS DECISION

FOUNDATION FIRST

Recommended pilot: one production area, verified assets, selected PM tasks, controlled defect reporting and a small user group.

CHOOSE THE NEXT ENGAGEMENT

OPTION A

Urgent Engineering Intervention

USE WHEN

Immediate safety exposure, active leakage or near-term machinery failure.

MAIN OUTPUT

Controlled repair scope, work record, tests, residual risks and follow-up actions.

OPTION B

Maintenance Foundation Programme

USE WHEN

Main weakness is asset data, PM quality, defect control, spares or accountability.

MAIN OUTPUT

Verified assets, PM standards, defect controls, roles, evidence and review routine.

OPTION C

Custom-Branded CMMS Pilot

USE WHEN

Data and workflows are verified and management is ready to support adoption.

MAIN OUTPUT

Client-branded pilot, users, assets, workflows, training and review criteria.

Recommended for this sample: urgent controls → maintenance foundation pilot → CMMS pilot after readiness gates.