

## Equipment Health Index (EHI) Review Checklist

#### **Overall Performance & Trending**

Evaluates overall EHI score trends and identifies areas requiring immediate attention. Focuses on broader performance indicators.

Focuses on broader performance indicators.	
Current EHI Score	
Enter a number	
Previous EHI Score (for comparison)	
Enter a number	
Percentage Change in EHI Score	
Enter a number	
Summary of Key Trends Observed in EHI Data	
Write something	

Overall Assessment of Equipment Health (Based on EHI)  Excellent  Good
☐ Fair ☐ Poor
Areas of Greatest Concern (Based on EHI)
Mechanical Systems
☐ Electrical Systems
Process Control
Lubrication
Hydraulics
Recommendations for Further Investigation or Action
Write something
Vibration Analysis  Assesses vibration data to detect imbalances, misalignment, bearing faults, and other mechanical issues. Focuses on critical rotating equipment.
nechanical issues. Focuses on critical rotating equipment.

**Overall Vibration Severity Score (RMS)** 

Enter a number...

Axial Vibration (mm/s)	
Enter a number	
Radial Vibration (mm/s)	
Enter a number	
「angential Vibration (mm/s)	
Enter a number	
Phase Analysis (if applicable)	
Normal  Phase Shift Detected	
Unstable Phase	
Not Applicable	
Description of Observed Vibration Patterns	
Write something	
	),
/ibration Spectrum Graph	
♣ Upload File	

Impulse Characteristics (if present)
Low
Moderate
High
Date of Last Vibration Analysis
Enter date
Oil Analysis
Reviews oil samples for wear debris, contaminants, and lubricant degradation to predict
failures and optimize maintenance schedules. Applies to lubricated equipment.
Viscosity (cSt @ 40°C)
Enter a number
Total Base Number (TBN) (mg KOH/g)
Enter a number
Acid Number (AN) (mg KOH/g)
Enter a number
Water Content (%)
Enter a number

Wear Metal Concentration - Iron (ppm)
Enter a number
Wear Metal Concentration - Copper (ppm)
Enter a number
Particle Contamination (ISO Code)
☐ ISO 00
☐ ISO 03
☐ ISO 06
☐ ISO 09
☐ ISO 12
☐ ISO 14
☐ ISO 16
☐ ISO 18
☐ ISO 21
☐ ISO 24
Observations/Comments on Oil Condition
Write something
Oil Sample Date
Enter date

#### Oil Analysis Report



#### **Thermography (Infrared Scanning)**

Evaluates thermal images to identify hotspots indicative of electrical, mechanical, or process inefficiencies.

Enter a number	
Ambient Temperature (°C)	
Enter a number	
Emissivity Value Used	
Enter a number	
Description of Hotspot Anomalies Observed (if any)	

Areas Inspected (Select all that apply)    Electrical Panels   Motors & Drives   Pumps   Gearboxes   Process Piping   HVAC Systems   Other (Specify in long text)
Overall Thermal Image Quality    Excellent   Good   Fair   Poor
Date of Thermography Scan  Enter date
Time of Thermography Scan  Attach Thermography Image(s)  L Upload File

#### **Ultrasonic Testing**

Reviews ultrasonic data to detect leaks, corrosion, bearing faults, and other anomalies in equipment components.

Enter a number	
Bearing Inner Race Defect Amplitude (dB)	
Enter a number	
Bearing Ball/Roller Defect Amplitude (dB)	
Enter a number	
Gear Mesh Frequency Amplitude (dB)	
Enter a number	
Description of Detected Anomalies (if any)	
Write something	
Leak Detection Status	
No Leaks Detected	
Minor Leak Detected	
Significant Leak Detected	
Leak Location Unknown	

4 Upload File

Enter date	
Time of Ultrasonic Testing	
Process Parameter Monitoring	
analyzes process data (e.g., pressure, temperature, flow) to identify deviations fro formal operating conditions that impact equipment health.	om
Production Rate (Units/Hour)	
Enter a number	
Operating Pressure (PSI)	
Enter a number	
Operating Temperature (Degrees Celsius)	
Enter a number	
Power Consumption (kW)	
Enter a number	

Cycle Time (Normal Range)  Within Specification Slightly Outside Significantly Outside
Observed Process Anomalies/Deviations
Write something
Date of Last Process Parameter Calibration  Enter date
Process Parameter Stability  Stable
Slightly Fluctuating  Highly Fluctuating
Actions Taken Regarding Process Parameter Deviations  Write something

### **Data Integrity and Reliability**

Verifies the accuracy and completeness of data collected for EHI calculations and ensures data sources are reliable.

Enter a number	
Data Source Verification Method	
Manual Review	
Automated Validation	
Calibration Records	
Third-Party Audit	
Last Data Source Validation Date	
Enter date	
Description of Data Validation Procedures	
Description of Data Validation Procedures  Write something	
Description of Data Validation Procedures  Write something  Data Transmission Method	
Write something	
Write something  Data Transmission Method	
Write something  Data Transmission Method  Direct Connection	
Write something  Data Transmission Method  Direct Connection  Wireless	
Write something  Data Transmission Method  Direct Connection  Wireless  Networked	
Write something  Data Transmission Method  Direct Connection  Wireless  Networked	

Write something	
Calibration Status of S	ensors
Within Calibration Perio	d
Calibration Needed	
Calibration Overdue	
Alarm Managei	ment & Response
eviews alarm thresholds	
	response procedures, and documentation to ensure timely and when equipment issues are detected.
	when equipment issues are detected.
ppropriate action is taken	when equipment issues are detected.
ppropriate action is taken  Number of Unacknowl	when equipment issues are detected.  edged Alarms
Number of Unacknowl  Enter a number	when equipment issues are detected.  edged Alarms
Number of Unacknowl  Enter a number  Alarm Response Proto	when equipment issues are detected.  edged Alarms
Number of Unacknowl  Enter a number  Alarm Response Proto	when equipment issues are detected.  edged Alarms
Number of Unacknowl  Enter a number  Alarm Response Proto  Yes  No N/A	when equipment issues are detected.  edged Alarms  ocol Followed?
Number of Unacknowl  Enter a number  Alarm Response Proto  Yes  No N/A  Brief Description of Al	when equipment issues are detected.  edged Alarms
Number of Unacknowl  Enter a number  Alarm Response Proto  Yes  No N/A	when equipment issues are detected.  edged Alarms  ocol Followed?

Date of Last Alarm Response Training  Enter date	
Average Time to Acknowledge an Alarm	
Root Cause Analysis Performed for Recurring Alarms?  Yes No N/A	
Summary of Findings from Root Cause Analysis (if applicable)  Write something	
Attach screenshot of recent alarm log (if applicable)	
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### **Maintenance History Review**

Examines past maintenance records to identify recurring problems, assess the effectiveness of repairs, and optimize maintenance strategies.

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Number	of Preventative	Maintenance	(PM)	Tasks	Com	nleted	on	Time
140111001	OI I IOVOIILALIVO	maniconanio	<b>(• •••</b> <i>)</i>	iasits	00111	PICCO	011	

Enter a number...

Write something	
Date of Last Major Overhaul	
Enter date	
Mean Time Between Failures (MTBF) – Current	Value
Enter a number	
Number of Unexpected Breakdowns in the Past	t 12 Months
Enter a number	
Detailed Description of Most Recent Significant	t Repair
Write something	
Root Cause Analysis (RCA) Documentation Ava	ailable?
Yes	

# Upload Maintenance Records/Logs (Optional) L Upload File

#### **Corrective Action Effectiveness**

Evaluates the impact of corrective actions taken on equipment health and EHI scores, to improve future maintenance activities.

Pre-Corrective Action EHI Score
Enter a number
Post-Corrective Action EHI Score
Enter a number
Corrective Action Category
☐ Mechanical
☐ Electrical
Process
Lubrication
Software/Control System
Description of Corrective Action Taken
Write something

Root Cause Identified (Initial Assessment)  Wear  Misalignment  Contamination  Design Flaw  Operator Error  Other
Root Cause Verification Method  Visual Inspection  Vibration Analysis  Oil Analysis  Thermography  Ultrasonic Testing
Description of Actual Root Cause (If Different)  Write something
Was the Corrective Action Effective?  Yes No Partially
Explanation for Effectiveness Rating (If Partially or No)  Write something

Date of Follow-Up	
Enter date	