Predictive Maintenance Report

Report ID	PM-2024-056	Date	2024-06-14
Prepared By	Jane Doe	Location	Plant 1 - Line A
Equipment	AC Motor - Serial #ACM-09123		

1. Overview

This report summarizes the findings and recommendations from the latest predictive maintenance inspection conducted using vibration analysis, thermography, and oil analysis for the AC Motor in Production Line A.

2. Equipment Details

Asset Category	Rotating Equipment	Criticality Level	High
Operating Hours	12,500 hrs	Maintenance Cycle	Every 3 Months

3. Condition Monitoring Results

Inspection Method	Parameter	Observed Value	Threshold/Limit	Status
Vibration	RMS Velocity	5.2 mm/s	< 7.1 mm/s	Acceptable
Thermography	Surface Temp	68°C	< 75°C	Acceptable
Oil Analysis	Particle Count	17/15/12	< 20/16/13	Normal

4. Observations & Findings

- No abnormal vibration signatures detected in critical bearing zones.
- Thermal scan indicates even temperature distribution; no hotspots found.
- Oil sample shows normal particle levels and no water contamination.
- Minor grease buildup noted near coupling, recommend cleanup during next shutdown.

5. Recommendations

1. Monitor vibration levels monthly until next scheduled maintenance.
2. Clean excess grease near coupling at earliest convenience.
3. Continue routine oil monitoring every 3 months.

6. Next Review Date

September 14, 2024

Important Notes

- Predictive maintenance relies on timely and accurate data collection for effective decision-making.
- This report serves as an early warning tool, not as a final diagnosis.
- Trend monitoring over time is essential for identifying gradual equipment degradation.
- Always cross-reference findings with OEM recommendations and safety guidelines.