

Maintenance Analysis Report

Generated on April 26, 2025

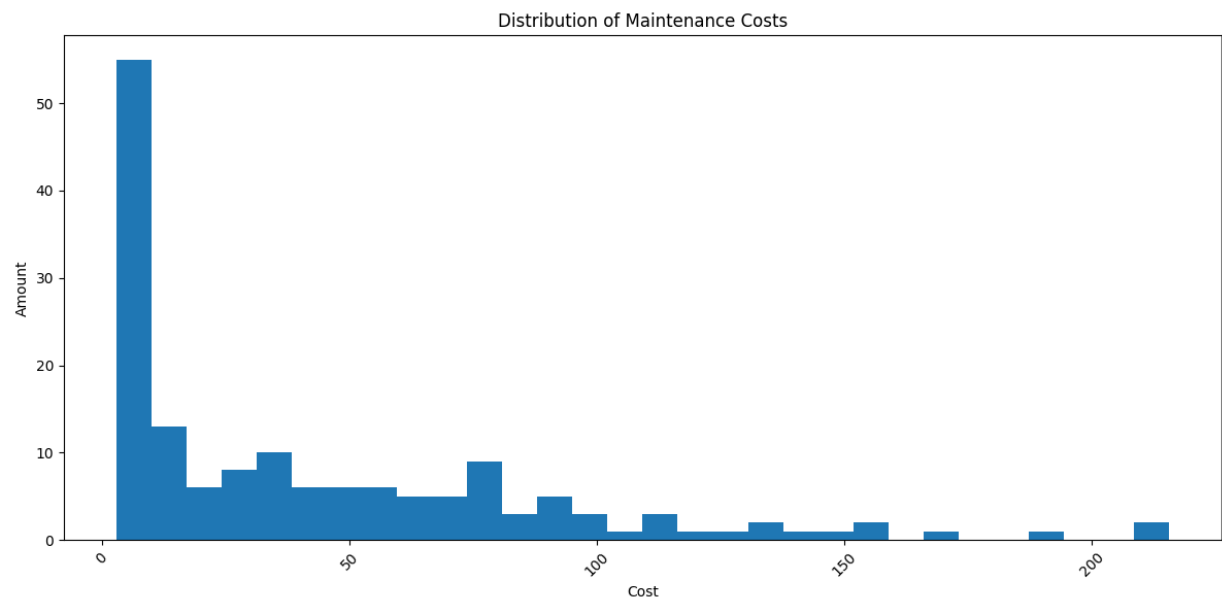
Executive Summary

This report provides a comprehensive analysis of maintenance operations based on the available data. Total maintenance costs amount to \$6,822.15. The analysis covers 9 unique pieces of equipment. There are 3 high-priority recommendations that require immediate attention.

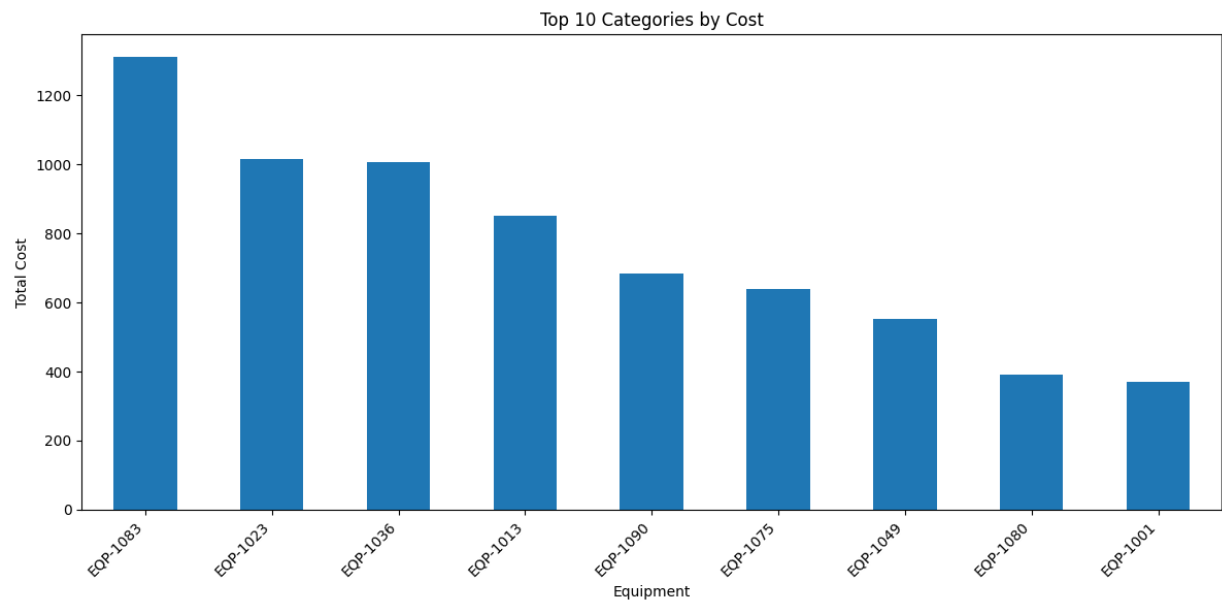
Key Statistics

Total Records	156.00
Unique Equipment	9.00
Total Cost	\$6,822.15
Avg Cost	\$43.73
Min Cost	\$2.95
Max Cost	\$215.60

Cost Analysis



Maintenance Costs by Category



Detailed Category Analysis

Category	Count Maintenance Cost	Sum Maintenance Cost	Mean Maintenance Cost
EQP-1083	17.00	1,310.85	77.11
EQP-1023	17.00	1,015.80	59.75
EQP-1036	18.00	1,006.65	55.92
EQP-1013	17.00	851.80	50.11
EQP-1090	18.00	685.30	38.07
EQP-1075	17.00	637.85	37.52
EQP-1049	17.00	551.65	32.45
EQP-1080	18.00	390.70	21.71
EQP-1001	17.00	371.55	21.86

LLM-Based Maintenance Analysis

Common Maintenance Terms

Term	Frequency
replaced	27.38
tightened	8.67
seal	7.86
gasket	7.03
washer	5.49
adjusted	4.49
installed	4.47
used	4.32
cleaned	4.22
bolts	4.09

Sentiment Analysis

Category	Count
LABEL_0	65
LABEL_1	35

Sample Maintenance Insights

Description: Successfully replaced sensor

Classification: LABEL_0

Confidence: 50.74%

Description: No leaks detected

Classification: LABEL_0

Confidence: 51.60%

Description: Full seal replacement

Classification: LABEL_0

Confidence: 50.16%

Description: Waiting for additional parts

Classification: LABEL_1

Confidence: 50.49%

Description: Complete overhaul performed

Classification: LABEL_0

Confidence: 50.19%

Business Recommendations

High Priority Recommendations

<div><div>Equipment Performance</div><div>Observation: EQP-1036 requires frequent maintenance</div><div>Recommendation: Evaluate replacement or upgrade options for this equipment</div></div>
<div><div>Equipment Performance</div><div>Observation: EQP-1080 requires frequent maintenance</div><div>Recommendation: Evaluate replacement or upgrade options for this equipment</div></div>
<div><div>Equipment Performance</div><div>Observation: EQP-1090 requires frequent maintenance</div><div>Recommendation: Evaluate replacement or upgrade options for this equipment</div></div>