

Work Order Analysis Report

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Data Period: 2024-01-01 to 2024-05-31

Summary Metrics

Total Work Orders: 19,425

Total Cost: \$64,996

Analysis Period: 151 days

Sections: 4

Table of Contents

1. Executive Summary	...
2. Equipment Analysis	...
3. Seasonal Analysis	...
4. Vendor Performance	...
5. Failure Pattern Analysis	...
6. Recommendations Summary	...

Executive Summary

Analysis completed across 4 areas:

Equipment Analysis:

Identified 2 consensus outliers from 49 equipment items. Top priority: Lift No.2 (E-Call - Lift Escalator緊急事故 - 升降機及自動電梯) with 2435.20 WO/month and \$49,280 cost impact.

→ Focus on top 3 equipment items: Lift No.2, Lift No.1

Seasonal Analysis:

No significant seasonal patterns detected. Costs relatively stable across 2 quarters.

→ No significant seasonal patterns detected. Costs are relatively stable across periods.

Vendor Performance:

Analyzed 25 vendors. Top 3 vendors (UNION CONTRACTORS LTD, WELL CREATION ENGINEERING LTD, GUARDIAN FIRE ENGINEERS & CONSULTANTS LTD) account for \$31,583 (48.6%) of total vendor costs. Generated 32 recommendations for review.

→ Review contract terms and pricing structure for potential cost savings

Failure Pattern Analysis:

Identified 23 high-impact failure patterns. Top issue: 'repair 修理' (other) with 818 occurrences affecting 23 equipment items. Categorized 11 failure types.

→ Investigate recurring repair 修理 issue affecting 23 equipment items. Develop targeted preventive maintenance strategy. Priority: affects 23 equipment items.

Equipment Analysis

Identified 2 consensus outliers from 49 equipment items. Top priority: Lift No.2 (E-Call - Lift Escalator緊急事故 - 升降機及自動電梯) with 2435.20 WO/month and \$49,280 cost impact.

Top Priority Equipment (Top 10)

Equipment	Category	WO/Month	Avg Cost	Cost Impact	Priority	Rank
Lift No.2	E-Call - Lift ...	2435.20	\$616	\$49,280	1.000	1
Lift No.1	其他一般維修工程	91.32	\$nan	\$0	0.800	2

Detection Thresholds

Work Orders per Month: N/A

Average Cost: N/A

Recommendations

Focus on top 3 equipment items: Lift No.2, Lift No.1

Equipment exceeding 1263.26 work orders/month or \$24,640 cost impact in their category warrant review

Seasonal Analysis

No significant seasonal patterns detected. Costs relatively stable across 2 quarters.

Monthly Cost Trends

Period	Total Cost	Avg Cost	Work Order Count
January	\$15,755	\$4	3772
February	\$15,446	\$5	3117
March	\$5,045	\$1	3870
April	\$11,693	\$3	4174
May	\$17,057	\$4	4492

Quarterly Cost Analysis

Period	Total Cost	Avg Cost	Work Order Count	Variance Pct
Q1	\$36,246	\$3	10759	+11.5%
Q2	\$28,750	\$3	8666	-11.5%

Recommendations

No significant seasonal patterns detected. Costs are relatively stable across periods.

Vendor Performance

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Top Vendors by Cost

Contractor	Total Cost	WO Count	Avg Cost/WO
UNION CONTRACTORS LTD	\$13,326	238	\$56
WELL CREATION ENGINEER...	\$11,879	243	\$49
GUARDIAN FIRE ENGINEER...	\$6,378	160	\$40
HANISON INTERIOR AND R...	\$5,935	208	\$29
STANDARD REFRIGERATION...	\$5,370	57	\$94
SYNERGIS MANAGEMENT SE...	\$4,810	7206	\$1
REC ENGINEERING COMPAN...	\$4,290	151	\$28
WENDEN ENGINEERING SER...	\$3,168	152	\$21
HITACHI ELEVATOR ENGIN...	\$2,465	66	\$37
SAVILLS PROPERTY MANAG...	\$1,876	7461	\$0

Recommendations

- Review contract terms and pricing structure for potential cost savings
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Failure Pattern Analysis

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High-Impact Failure Patterns (Top 20)

Pattern	Occurrences	Total Cost	Avg Cost	Equipment
repair 修理	818	\$2,118	\$706	23
replace 更換	523	\$10,321	\$688	22
tear 損耗	564	\$8,020	\$729	18
malfunction 故障	394	\$5,470	\$684	21
shopping centre	190	\$4,966	\$621	14
equipment 設備	172	\$3,248	\$650	14
loosen 損壞/鬆脫	472	\$2,341	\$585	5
damaged 損壞	260	\$1,182	\$591	8
vandalism 人為破壞	163	\$1,133	\$566	9
replacement work	120	\$1,953	\$651	8

Recommendations

Investigate recurring repair 修理 issue affecting 23 equipment items. Develop targeted preventive maintenance strategy. Priority: affects 23 equipment items.

Investigate recurring replace 更換 issue affecting 22 equipment items. Develop targeted preventive maintenance strategy. Priority: affects 22 equipment items.

Investigate recurring tear 損耗 issue affecting 18 equipment items. Develop targeted preventive maintenance strategy. Priority: affects 18 equipment items.

Investigate root cause of malfunction 故障. May indicate need for equipment upgrade or replacement if failures are frequent. Priority: affects 21 equipment items.

Investigate recurring shopping centre issue affecting 14 equipment items. Develop targeted preventive maintenance strategy. Priority: affects 14 equipment items.

Recommendations Summary

Equipment Analysis

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