



Compressed Air Leak Study

[REDACTED]
[REDACTED], [REDACTED]

Survey date: February 25, 2026

Surveyed by: [REDACTED]

119

Leaks identified

78.3 CFM

Estimated total leakage

\$12,581

Estimated annual cost

Leak rates and costs estimated by Fluke LeakQ acoustic analysis. 3 unquantified capture(s) in Appendix A.

Executive Summary

The survey identified 119 compressed air leaks with a combined estimated leakage of 78.3 CFM, costing an estimated \$12,581 per year. Each leak is graded A-D by severity based on its LeakQ value (1-10 acoustic severity scale).

Grade	Severity	Recommended action	Leaks	Est. CFM	Est. \$/year
A	Critical LeakQ 8.0-10	Repair immediately	0	0.0	\$0
B	Significant LeakQ 6.0-7.9	Repair at first opportunity	31	38.5	\$6,193
C	Moderate LeakQ 4.0-5.9	Schedule repair	56	33.4	\$5,369
D	Minor LeakQ < 4.0	Repair as convenient	32	6.3	\$1,019
Total			119	78.3	\$12,581

Estimated annual cost by severity grade



Survey parameters (as configured on instrument)

System pressure:	110 BAR	Cost of electricity:	0.08 USD per kWh
Specific power ratio:	22 kW per 100 CFM	Operating hours / year:	8,760.00

Note: 3 acoustic capture(s) recorded without LeakQ quantification are shown in Appendix A and excluded from totals.

Leak Index

Ordered by severity (highest LeakQ first)

Leak #	Grade	Capture ID	LeakQ	Est. CFM	Est. \$/yr	Page
001	B	260225164413	7.7	2.15	\$346	7
002	B	260225164315	7.3	1.82	\$293	8
003	B	260225172021	7.3	1.78	\$287	9
004	B	260225165635	7.2	1.69	\$271	10
005	B	260225161324	7.1	1.65	\$266	11
006	B	260225163212	7.1	1.61	\$259	12
007	B	260225170738	7.1	1.60	\$257	13
008	B	260225162954	7.0	1.53	\$246	14
009	B	260225170927	7.0	1.53	\$246	15
010	B	260225172214	6.7	1.34	\$216	16
011	B	260225171736	6.6	1.29	\$208	17
012	B	260225164551	6.6	1.29	\$207	18
013	B	260225161127	6.4	1.16	\$187	19
014	B	260225161032	6.4	1.12	\$180	20
015	B	260225150409	6.3	1.11	\$178	21
016	B	260225151315	6.3	1.10	\$177	22
017	B	260225171038	6.3	1.07	\$172	23
018	B	260225165921	6.2	1.05	\$169	24
019	B	260225171004	6.2	1.05	\$169	25
020	B	260225174404	6.2	1.04	\$168	26
021	B	260225151834	6.1	0.99	\$159	27
022	B	260225153810	6.1	0.98	\$158	28
023	B	260225164613	6.1	0.98	\$157	29
024	B	260225163700	6.1	0.97	\$156	30
025	B	260225165601	6.1	0.97	\$156	31
026	B	260225164943	6.1	0.96	\$155	32
027	B	260225163941	6.0	0.95	\$153	33
028	B	260225172104	6.0	0.94	\$151	34
029	B	260225163638	6.0	0.93	\$150	35
030	B	260225172245	6.0	0.93	\$149	36
031	B	260225170108	6.0	0.91	\$147	37
032	C	260225153332	5.9	0.91	\$146	38
033	C	260225152821	5.9	0.87	\$141	39
034	C	260225170041	5.8	0.84	\$136	40
035	C	260225151652	5.8	0.83	\$133	41
036	C	260225154445	5.7	0.81	\$131	42

Leak Index (cont.)

Ordered by severity (highest LeakQ first)

Leak #	Grade	Capture ID	LeakQ	Est. CFM	Est. \$/yr	Page
037	C	260225151216	5.7	0.81	\$130	43
038	C	260225152403	5.7	0.81	\$129	44
039	C	260225154727	5.7	0.80	\$129	45
040	C	260225160045	5.7	0.81	\$129	46
041	C	260225170258	5.7	0.79	\$127	47
042	C	260225162603	5.6	0.77	\$124	48
043	C	260225170446	5.6	0.77	\$124	49
044	C	260225163422	5.6	0.77	\$123	50
045	C	260225171240	5.6	0.76	\$122	51
046	C	260225171207	5.6	0.75	\$121	52
047	C	260225164121	5.6	0.75	\$120	53
048	C	260225165816	5.6	0.74	\$119	54
049	C	260225165218	5.5	0.73	\$117	55
050	C	260225165256	5.5	0.73	\$117	56
051	C	260225170231	5.5	0.72	\$115	57
052	C	260225152010	5.5	0.70	\$113	58
053	C	260225163805	5.5	0.71	\$113	59
054	C	260225151614	5.4	0.69	\$111	60
055	C	260225165439	5.4	0.69	\$111	61
056	C	260225153708	5.3	0.66	\$106	62
057	C	260225170010	5.3	0.65	\$104	63
058	C	260225165508	5.2	0.62	\$100	64
059	C	260225165117	5.2	0.60	\$96	65
060	C	260225151532	5.1	0.59	\$95	66
061	C	260225172830	5.1	0.59	\$95	67
062	C	260225154019	5.1	0.58	\$94	68
063	C	260225162126	5.1	0.58	\$94	69
064	C	260225172622	5.0	0.56	\$90	70
065	C	260225173318	4.9	0.53	\$85	71
066	C	260225154935	4.9	0.52	\$83	72
067	C	260225173027	4.9	0.51	\$83	73
068	C	260225172341	4.8	0.51	\$81	74
069	C	260225153506	4.8	0.50	\$80	75
070	C	260225172121	4.8	0.50	\$80	76
071	C	260225160734	4.8	0.49	\$79	77
072	C	260225155545	4.7	0.47	\$76	78

Leak Index (cont.)

Ordered by severity (highest LeakQ first)

Leak #	Grade	Capture ID	LeakQ	Est. CFM	Est. \$/yr	Page
073	C	260225150754	4.7	0.47	\$75	79
074	C	260225150958	4.5	0.43	\$69	80
075	C	260225173301	4.4	0.41	\$65	81
076	C	260225173708	4.3	0.38	\$62	82
077	C	260225153945	4.3	0.38	\$60	83
078	C	260225154223	4.3	0.37	\$60	84
079	C	260225160304	4.3	0.37	\$59	85
080	C	260225160506	4.2	0.35	\$56	86
081	C	260225154549	4.1	0.33	\$53	87
082	C	260225153031	4.0	0.32	\$52	88
083	C	260225173827	4.0	0.32	\$52	89
084	C	260225150617	4.0	0.32	\$51	90
085	C	260225153218	4.0	0.32	\$51	91
086	C	260225161635	4.0	0.32	\$51	92
087	C	260225173729	4.0	0.31	\$51	93
088	D	260225160617	3.9	0.29	\$47	94
089	D	260225153142	3.9	0.29	\$46	95
090	D	260225173220	3.9	0.29	\$46	96
091	D	260225155200	3.8	0.28	\$46	97
092	D	260225155339	3.7	0.27	\$43	98
093	D	260225155919	3.7	0.26	\$41	99
094	D	260225174054	3.7	0.26	\$41	100
095	D	260225161459	3.6	0.25	\$40	101
096	D	260225173756	3.5	0.24	\$38	102
097	D	260225173121	3.5	0.23	\$37	103
098	D	260225174203	3.4	0.22	\$36	104
099	D	260225160329	3.4	0.22	\$35	105
100	D	260225173059	3.4	0.22	\$35	106
101	D	260225155111	3.4	0.21	\$34	107
102	D	260225174124	3.4	0.21	\$34	108
103	D	260225155031	3.2	0.19	\$31	109
104	D	260225173431	3.2	0.19	\$31	110
105	D	260225152211	3.1	0.18	\$29	111
106	D	260225155424	3.1	0.18	\$29	112
107	D	260225161810	3.1	0.18	\$29	113
108	D	260225173601	3.1	0.18	\$29	114

Leak Index (cont.)

Ordered by severity (highest LeakQ first)

Leak #	Grade	Capture ID	LeakQ	Est. CFM	Est. \$/yr	Page
109	D	260225160703	3.1	0.18	\$28	115
110	D	260225161538	3.1	0.18	\$28	116
111	D	260225160234	2.9	0.16	\$25	117
112	D	260225173645	2.9	0.15	\$25	118
113	D	260225173527	2.8	0.15	\$23	119
114	D	260225161742	2.7	0.14	\$22	120
115	D	260225160159	2.6	0.12	\$20	121
116	D	260225160551	2.6	0.12	\$20	122
117	D	260225160356	2.5	0.12	\$19	123
118	D	260225162035	2.4	0.10	\$17	124
119	D	260225161848	2.3	0.09	\$15	125

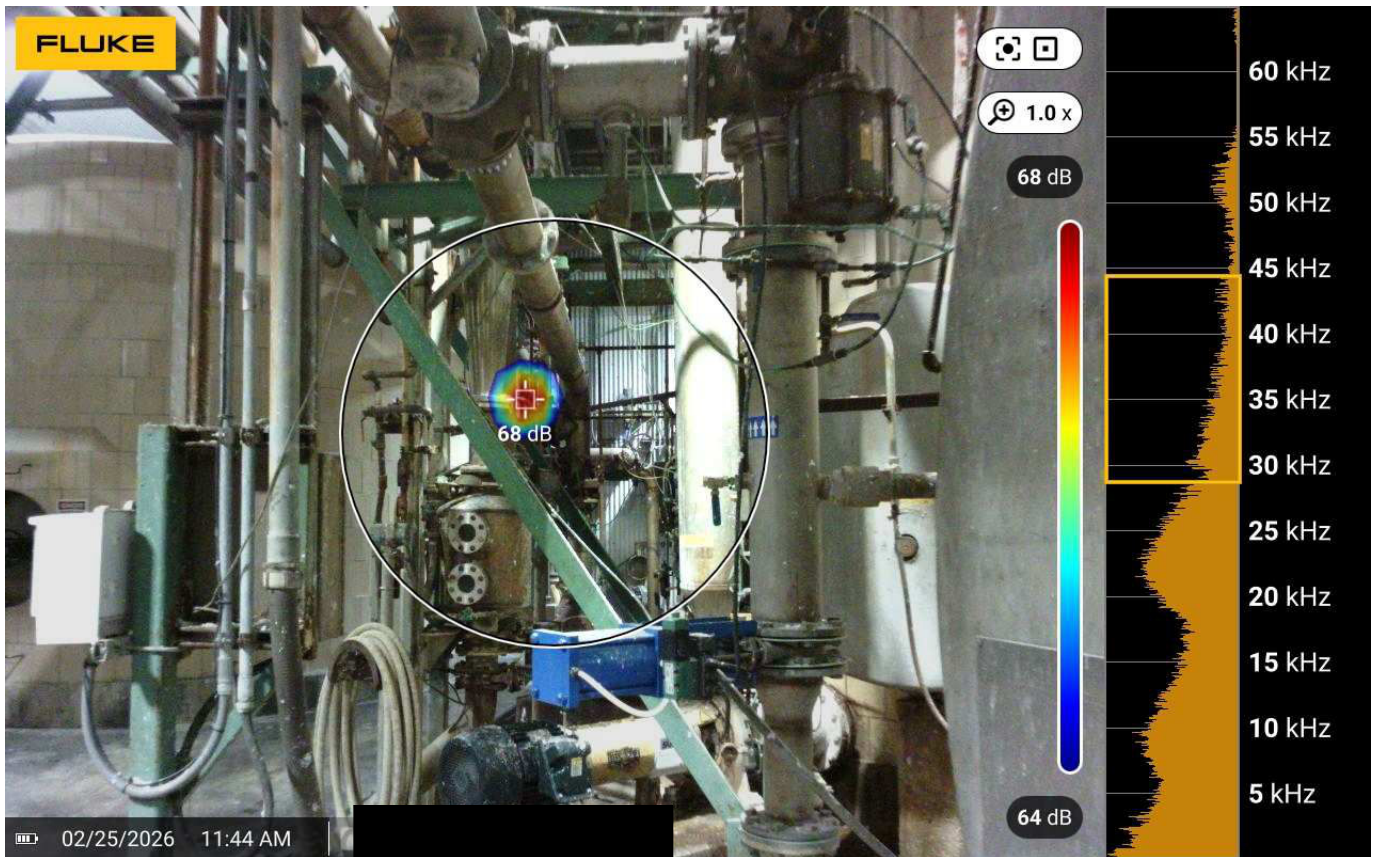
B

Leak 001

Significant - Repair at first opportunity

\$346 / year

2.15 CFM | LeakQ 7.7



Measurement data

Severity grade	B - Significant
LeakQ value	7.7 / 10
Est. leak rate	2.15 CFM
Est. annual cost	\$346 / year
Sound level at source	98.63 dB
Sound level at sensor	68.18 dB
Distance to source	32.81 FEET
Capture time	25/02/2026 16:44:13 PM

Location photo



Notes / location

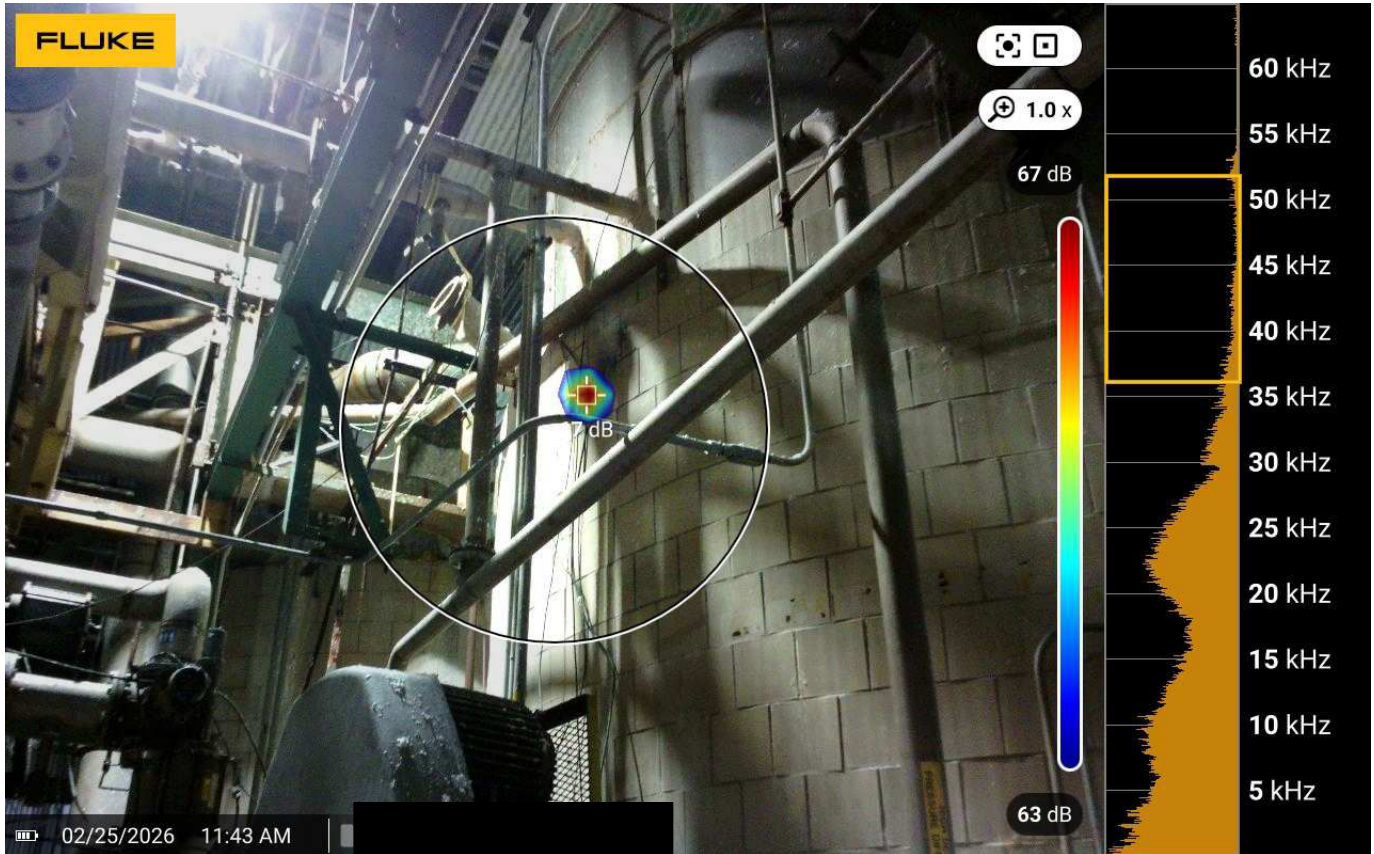
B

Leak 002

Significant - Repair at first opportunity

\$293 / year

1.82 CFM | LeakQ 7.3



Measurement data

Severity grade	B - Significant
LeakQ value	7.3 / 10
Est. leak rate	1.82 CFM
Est. annual cost	\$293 / year
Sound level at source	94.88 dB
Sound level at sensor	66.9 dB
Distance to source	24.67 FEET
Capture time	25/02/2026 16:43:15 PM

Location photo



Notes / location

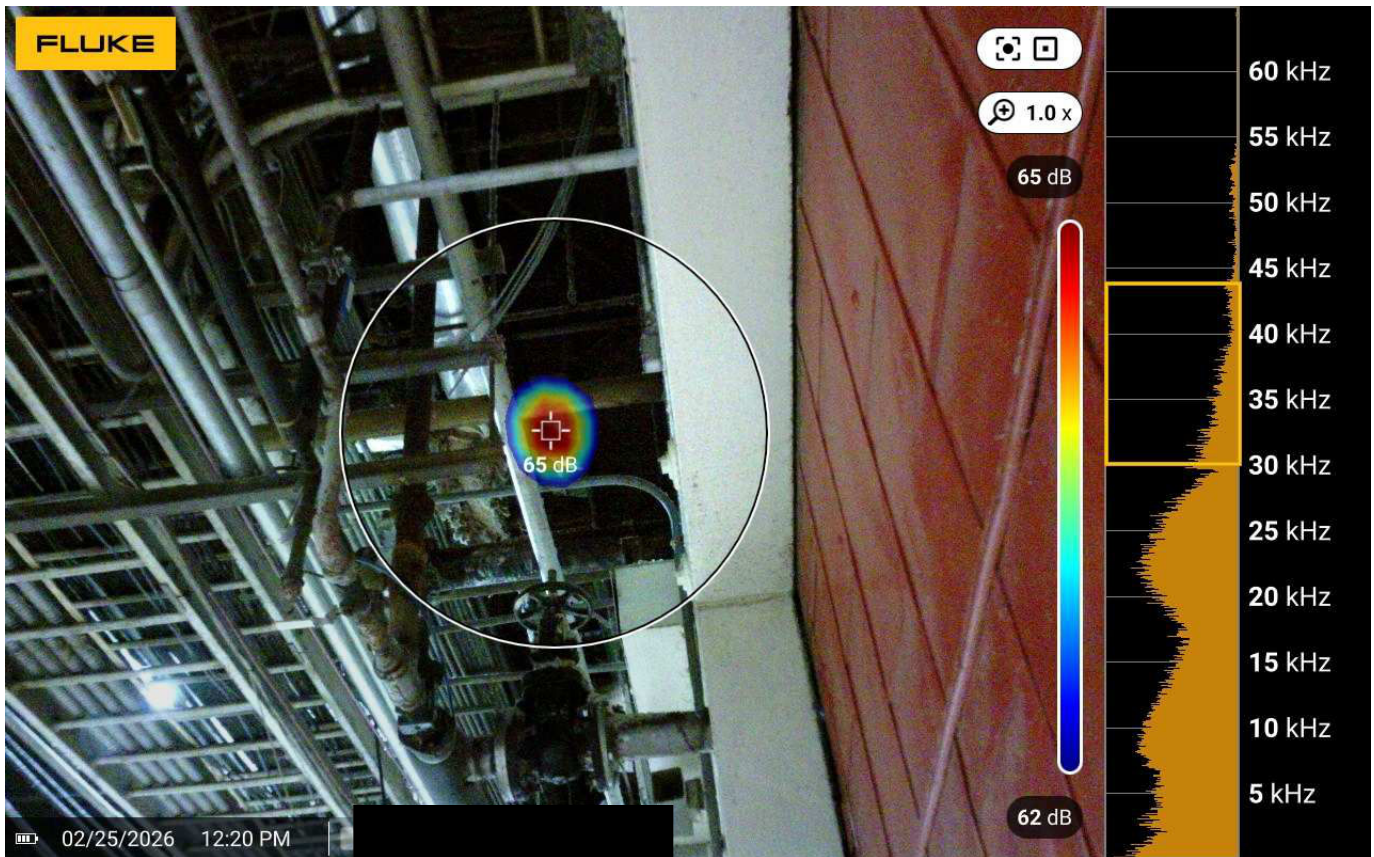
B

Leak 003

Significant - Repair at first opportunity

\$287 / year

1.78 CFM | LeakQ 7.3



Measurement data

Severity grade	B - Significant
LeakQ value	7.3 / 10
Est. leak rate	1.78 CFM
Est. annual cost	\$287 / year
Sound level at source	95.86 dB
Sound level at sensor	65.41 dB
Distance to source	32.79 FEET
Capture time	25/02/2026 17:20:21 PM

Location photo



Notes / location

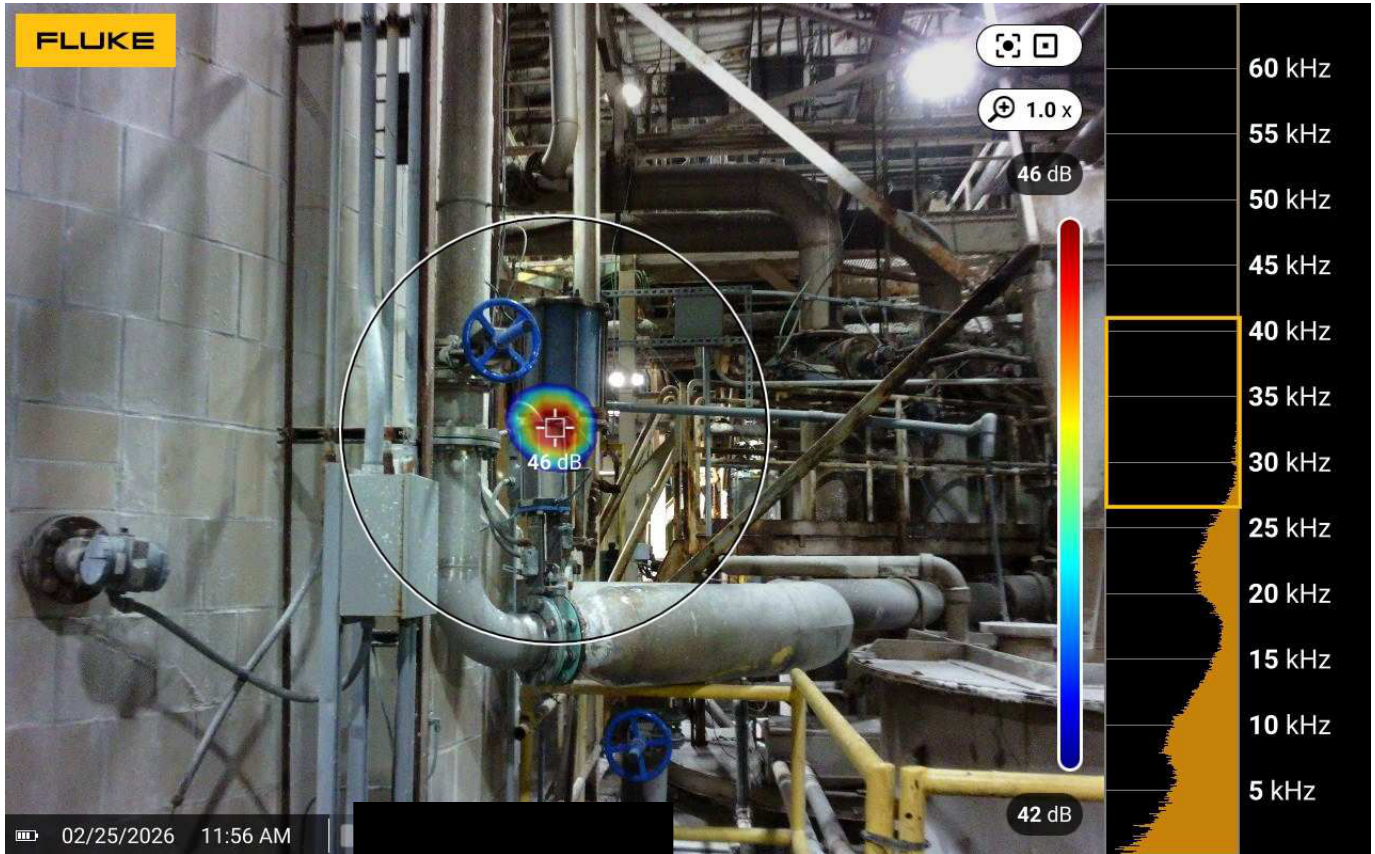
B

Leak 004

Significant - Repair at first opportunity

\$271 / year

1.69 CFM | LeakQ 7.2



Measurement data

Severity grade	B - Significant
LeakQ value	7.2 / 10
Est. leak rate	1.69 CFM
Est. annual cost	\$271 / year
Sound level at source	76.7 dB
Sound level at sensor	46.47 dB
Distance to source	31.99 FEET
Capture time	25/02/2026 16:56:35 PM

Location photo



Notes / location

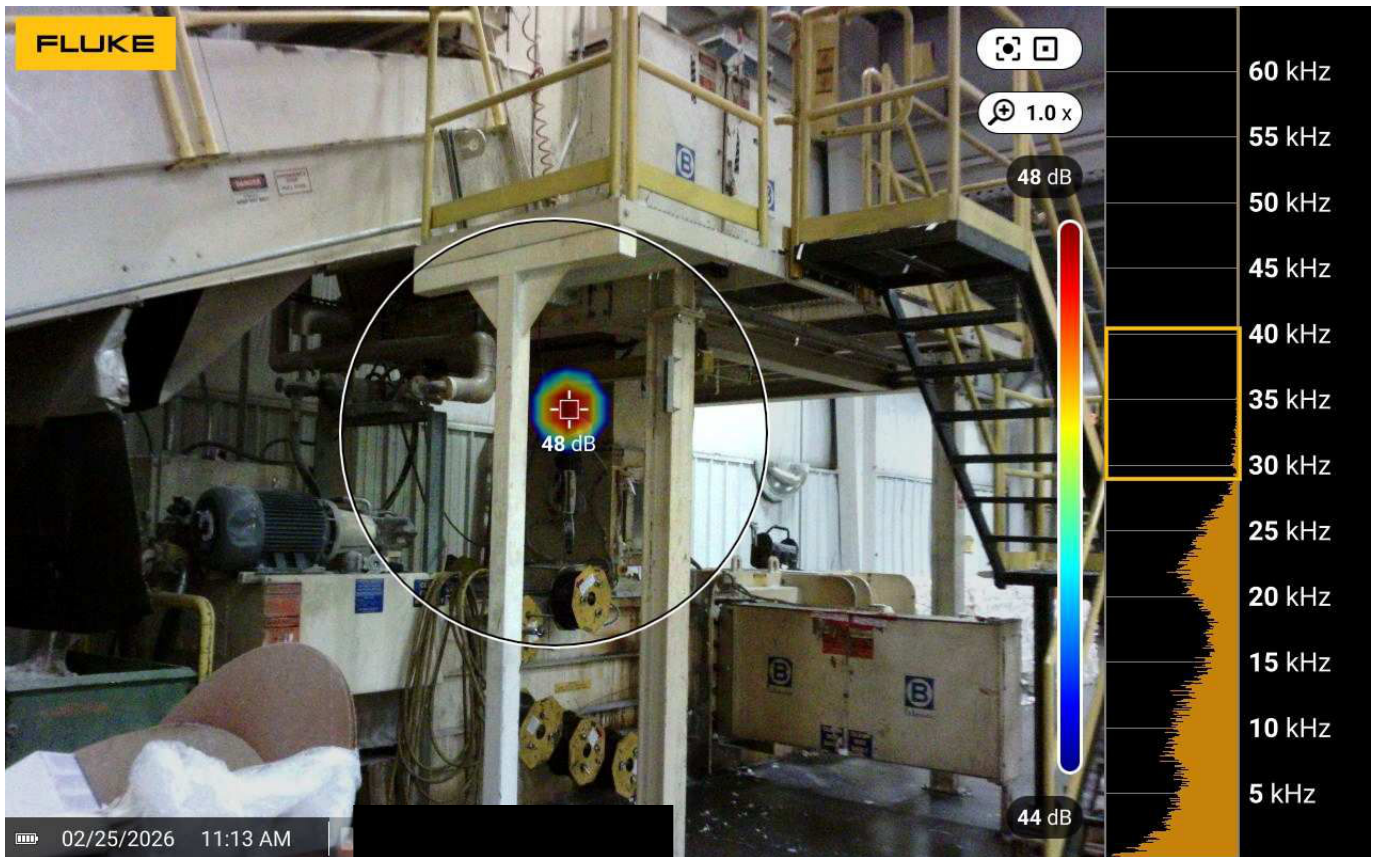
B

Leak 005

Significant - Repair at first opportunity

\$266 / year

1.65 CFM | LeakQ 7.1



Measurement data

Severity grade	B - Significant
LeakQ value	7.1 / 10
Est. leak rate	1.65 CFM
Est. annual cost	\$266 / year
Sound level at source	78.6 dB
Sound level at sensor	48.14 dB
Distance to source	32.81 FEET
Capture time	25/02/2026 16:13:24 PM

Location photo



Notes / location

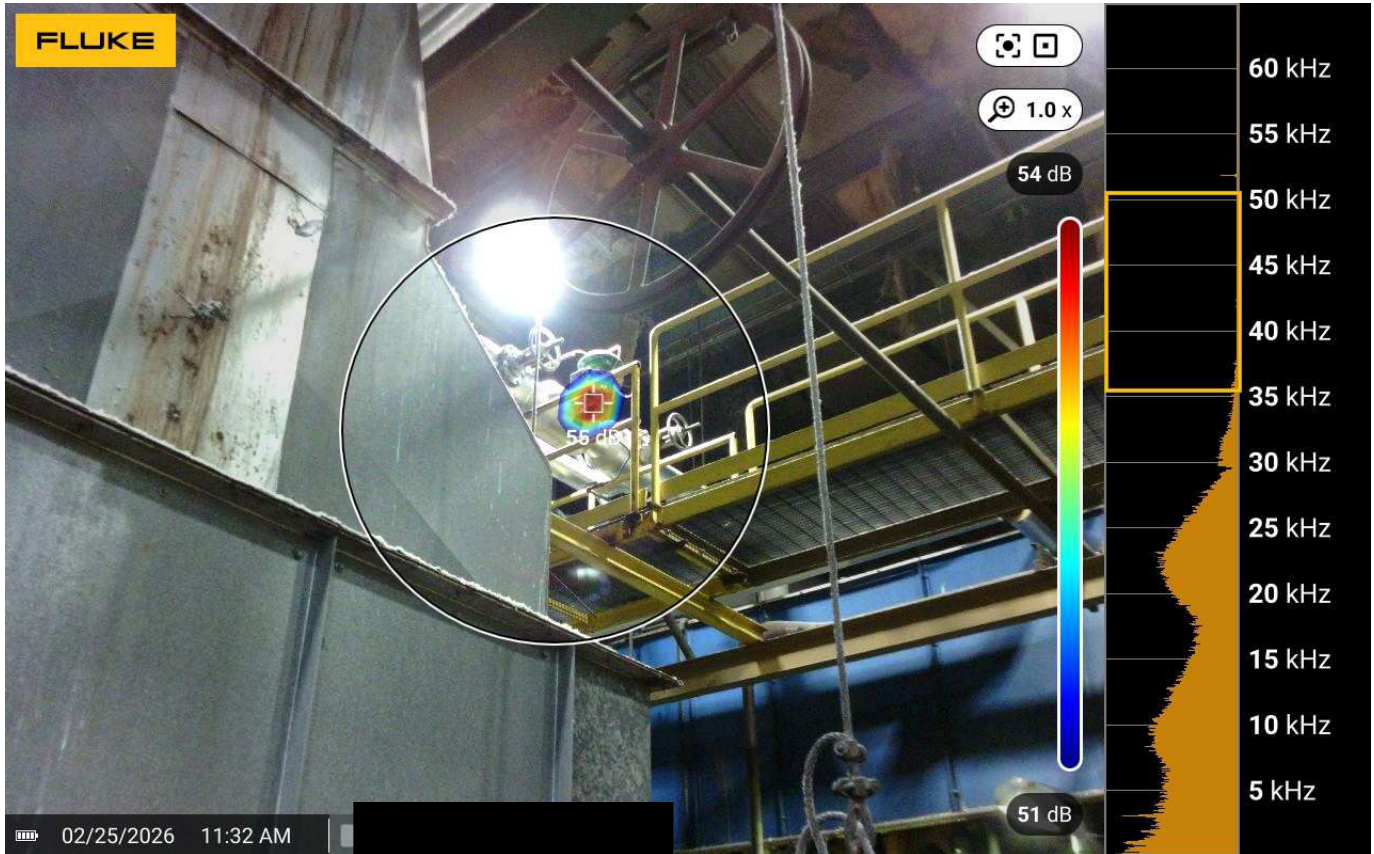
B

Leak 006

Significant - Repair at first opportunity

\$259 / year

1.61 CFM | LeakQ 7.1



Measurement data

Severity grade	B - Significant
LeakQ value	7.1 / 10
Est. leak rate	1.61 CFM
Est. annual cost	\$259 / year
Sound level at source	84.61 dB
Sound level at sensor	54.68 dB
Distance to source	30.86 FEET
Capture time	25/02/2026 16:32:12 PM

Location photo



Notes / location

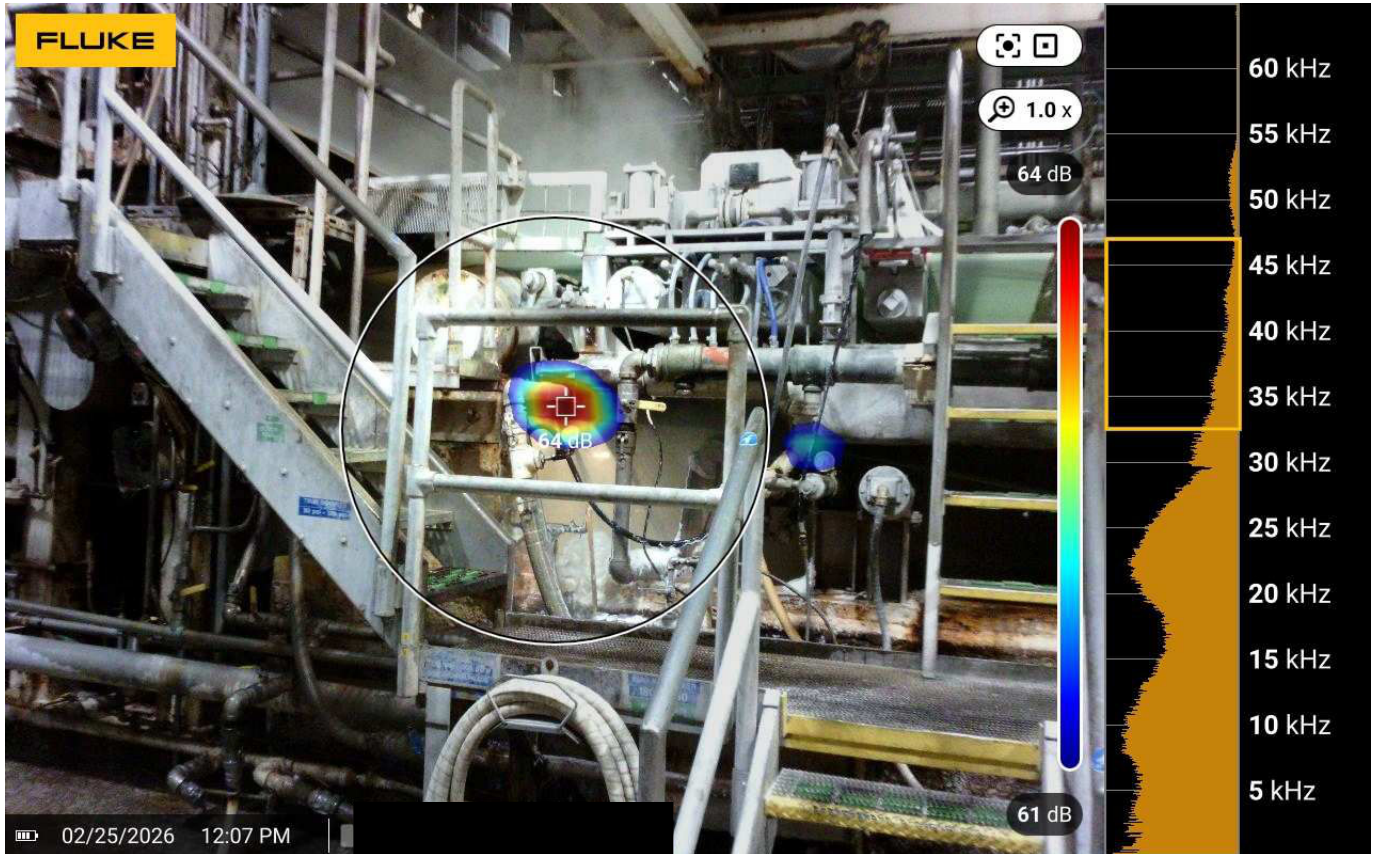
B

Leak 007

Significant - Repair at first opportunity

\$257 / year

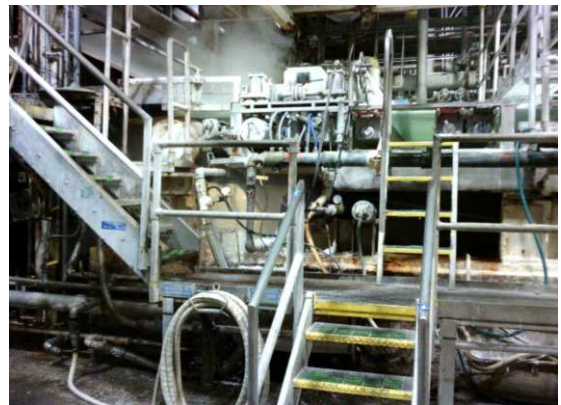
1.60 CFM | LeakQ 7.1



Measurement data

Severity grade	B - Significant
LeakQ value	7.1 / 10
Est. leak rate	1.60 CFM
Est. annual cost	\$257 / year
Sound level at source	92.44 dB
Sound level at sensor	64.36 dB
Distance to source	24.96 FEET
Capture time	25/02/2026 17:07:38 PM

Location photo



Notes / location

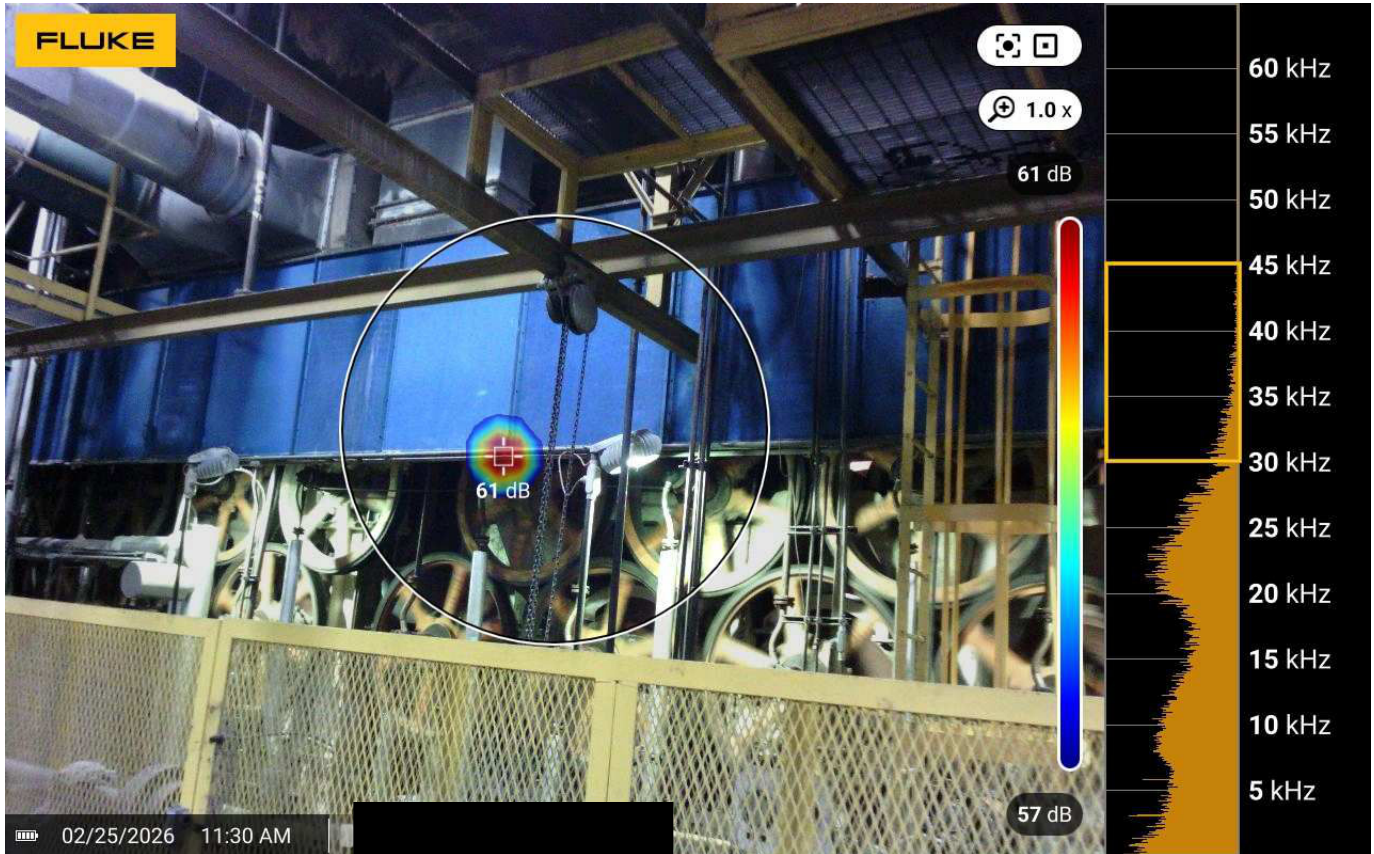
B

Leak 008

Significant - Repair at first opportunity

\$246 / year

1.53 CFM | LeakQ 7.0



Measurement data

Severity grade	B - Significant
LeakQ value	7.0 / 10
Est. leak rate	1.53 CFM
Est. annual cost	\$246 / year
Sound level at source	91.85 dB
Sound level at sensor	61.41 dB
Distance to source	32.77 FEET
Capture time	25/02/2026 16:29:54 PM

Location photo



Notes / location

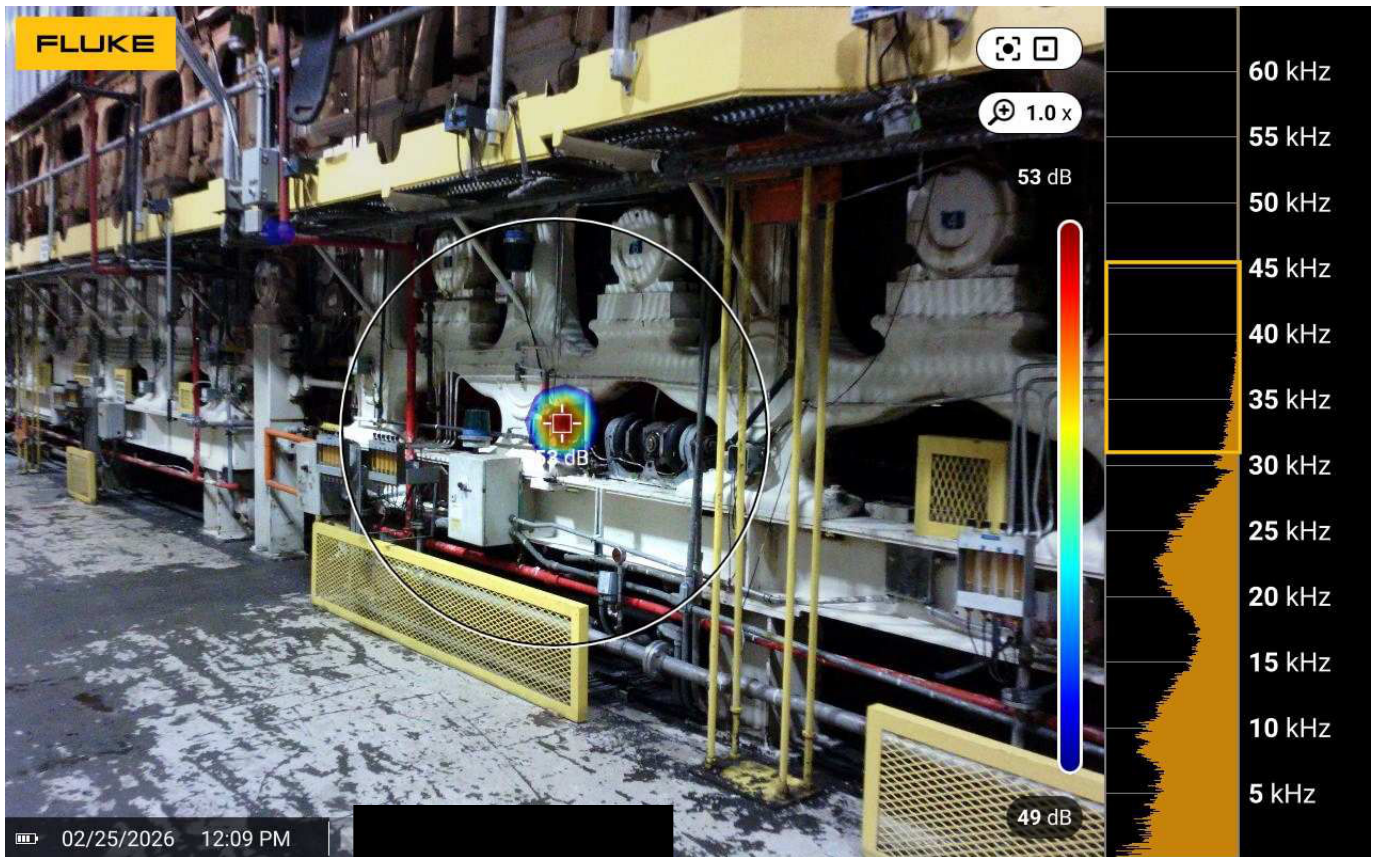
B

Leak 009

Significant - Repair at first opportunity

\$246 / year

1.53 CFM | LeakQ 7.0



Measurement data

Severity grade	B - Significant
LeakQ value	7.0 / 10
Est. leak rate	1.53 CFM
Est. annual cost	\$246 / year
Sound level at source	83.22 dB
Sound level at sensor	52.8 dB
Distance to source	32.64 FEET
Capture time	25/02/2026 17:09:27 PM

Location photo



Notes / location

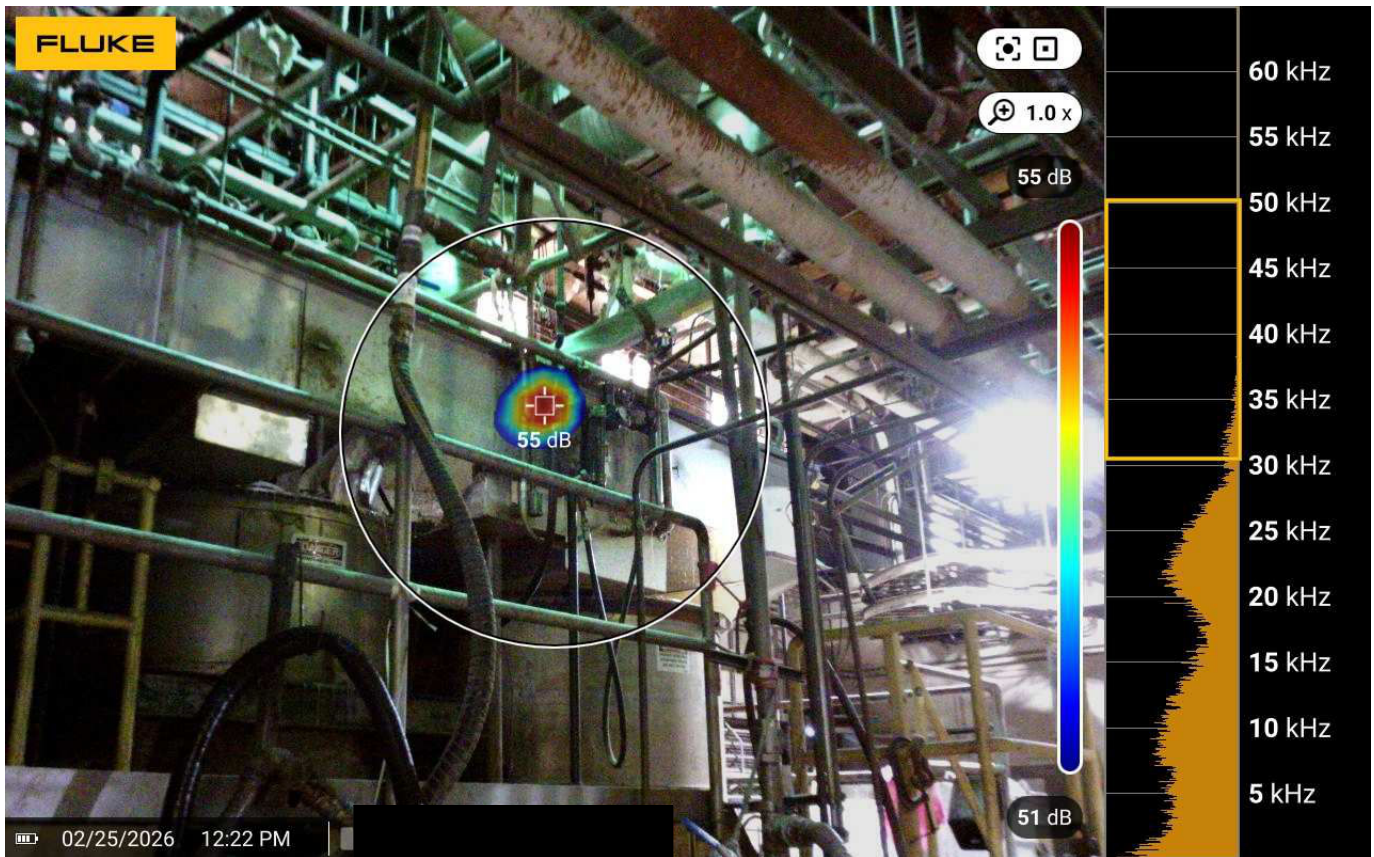
B

Leak 010

Significant - Repair at first opportunity

\$216 / year

1.34 CFM | LeakQ 6.7



Measurement data

Severity grade	B - Significant
LeakQ value	6.7 / 10
Est. leak rate	1.34 CFM
Est. annual cost	\$216 / year
Sound level at source	85.7 dB
Sound level at sensor	55.24 dB
Distance to source	32.81 FEET
Capture time	25/02/2026 17:22:14 PM

Location photo



Notes / location

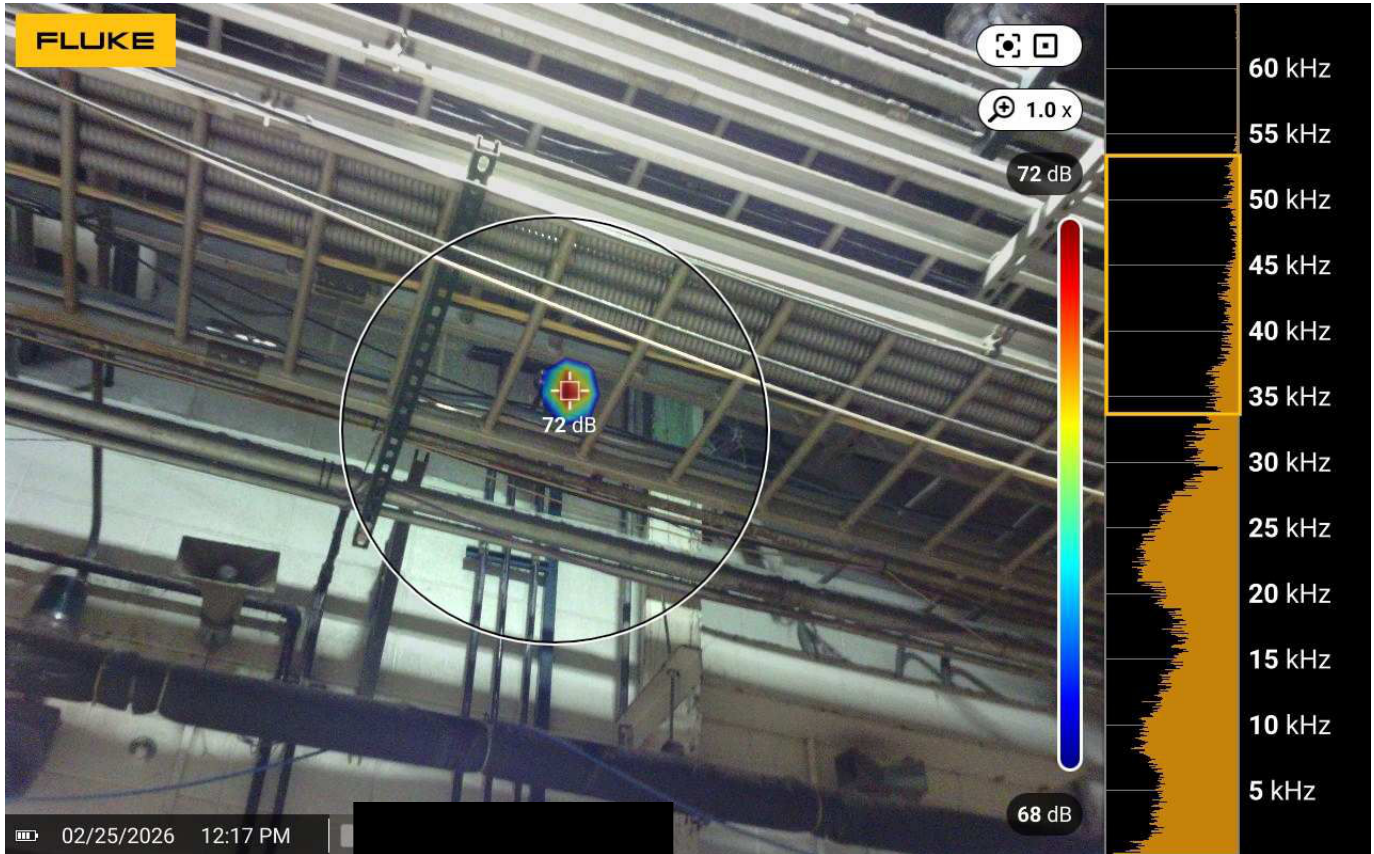
B

Leak 011

Significant - Repair at first opportunity

\$208 / year

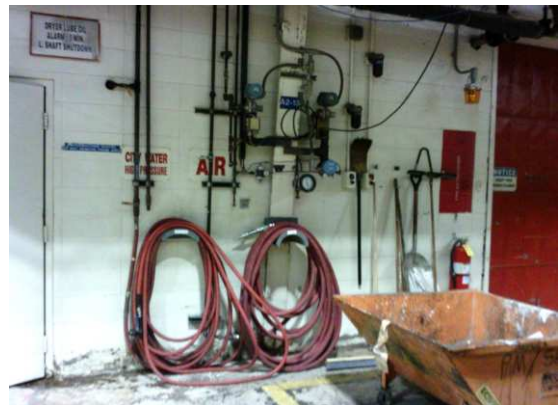
1.29 CFM | LeakQ 6.6



Measurement data

Severity grade	B - Significant
LeakQ value	6.6 / 10
Est. leak rate	1.29 CFM
Est. annual cost	\$208 / year
Sound level at source	97.37 dB
Sound level at sensor	72 dB
Distance to source	18.26 FEET
Capture time	25/02/2026 17:17:36 PM

Location photo



Notes / location

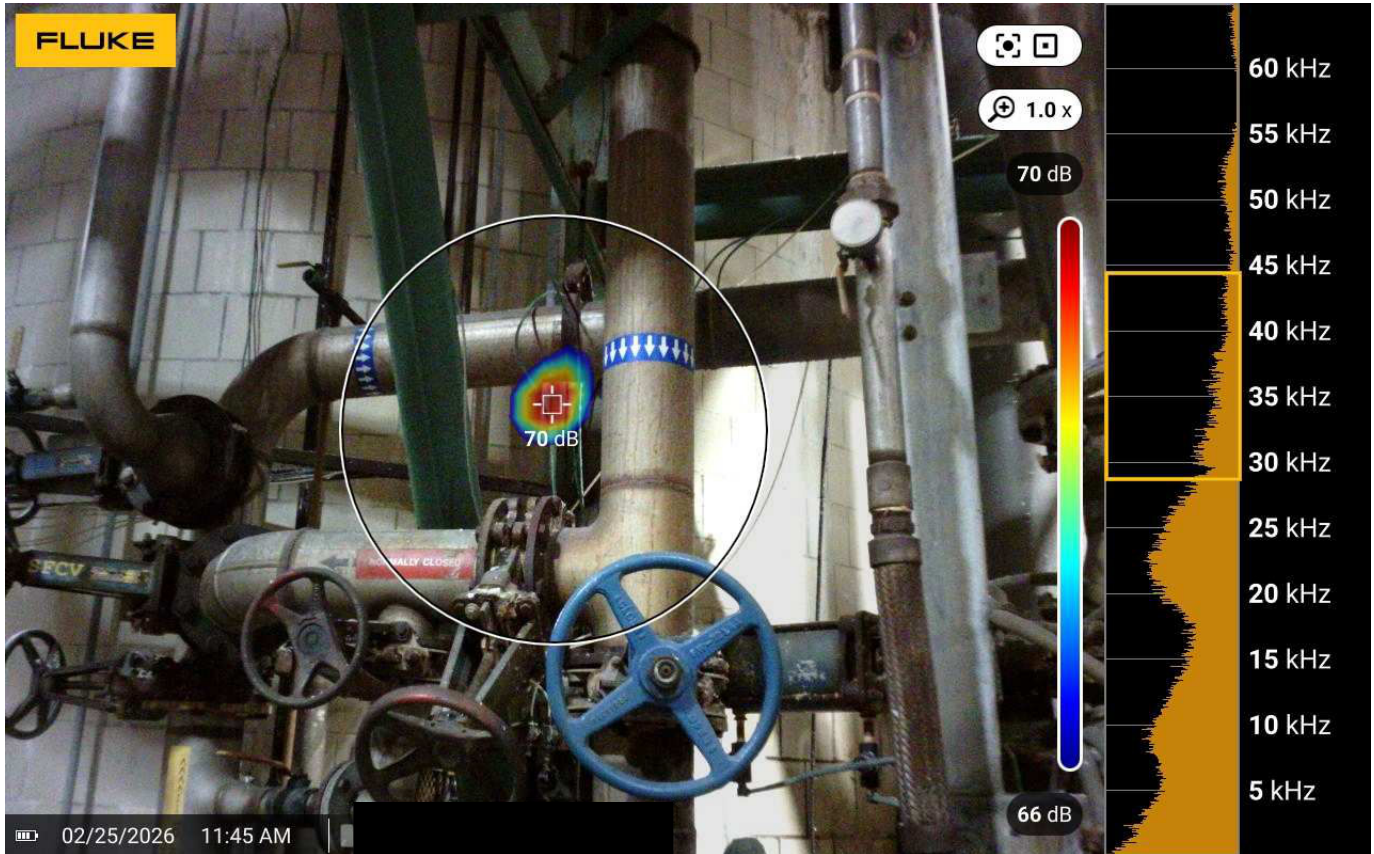
B

Leak 012

Significant - Repair at first opportunity

\$207 / year

1.29 CFM | LeakQ 6.6



Measurement data

Severity grade	B - Significant
LeakQ value	6.6 / 10
Est. leak rate	1.29 CFM
Est. annual cost	\$207 / year
Sound level at source	90.69 dB
Sound level at sensor	70.15 dB
Distance to source	10.47 FEET
Capture time	25/02/2026 16:45:51 PM

Location photo



Notes / location

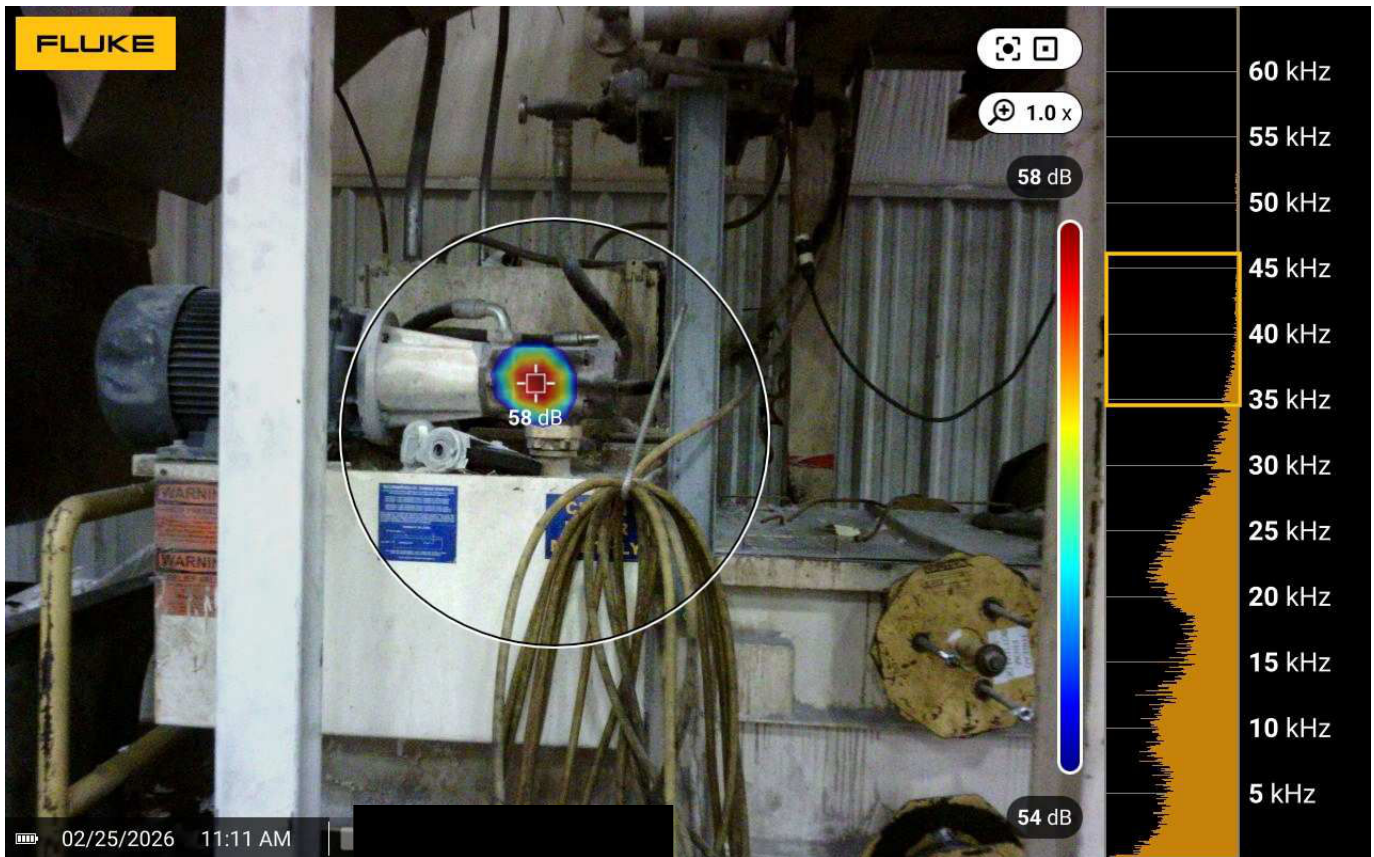
B

Leak 013

Significant - Repair at first opportunity

\$187 / year

1.16 CFM | LeakQ 6.4



Measurement data

Severity grade	B - Significant
LeakQ value	6.4 / 10
Est. leak rate	1.16 CFM
Est. annual cost	\$187 / year
Sound level at source	81.48 dB
Sound level at sensor	58 dB
Distance to source	14.7 FEET
Capture time	25/02/2026 16:11:27 PM

Location photo



Notes / location

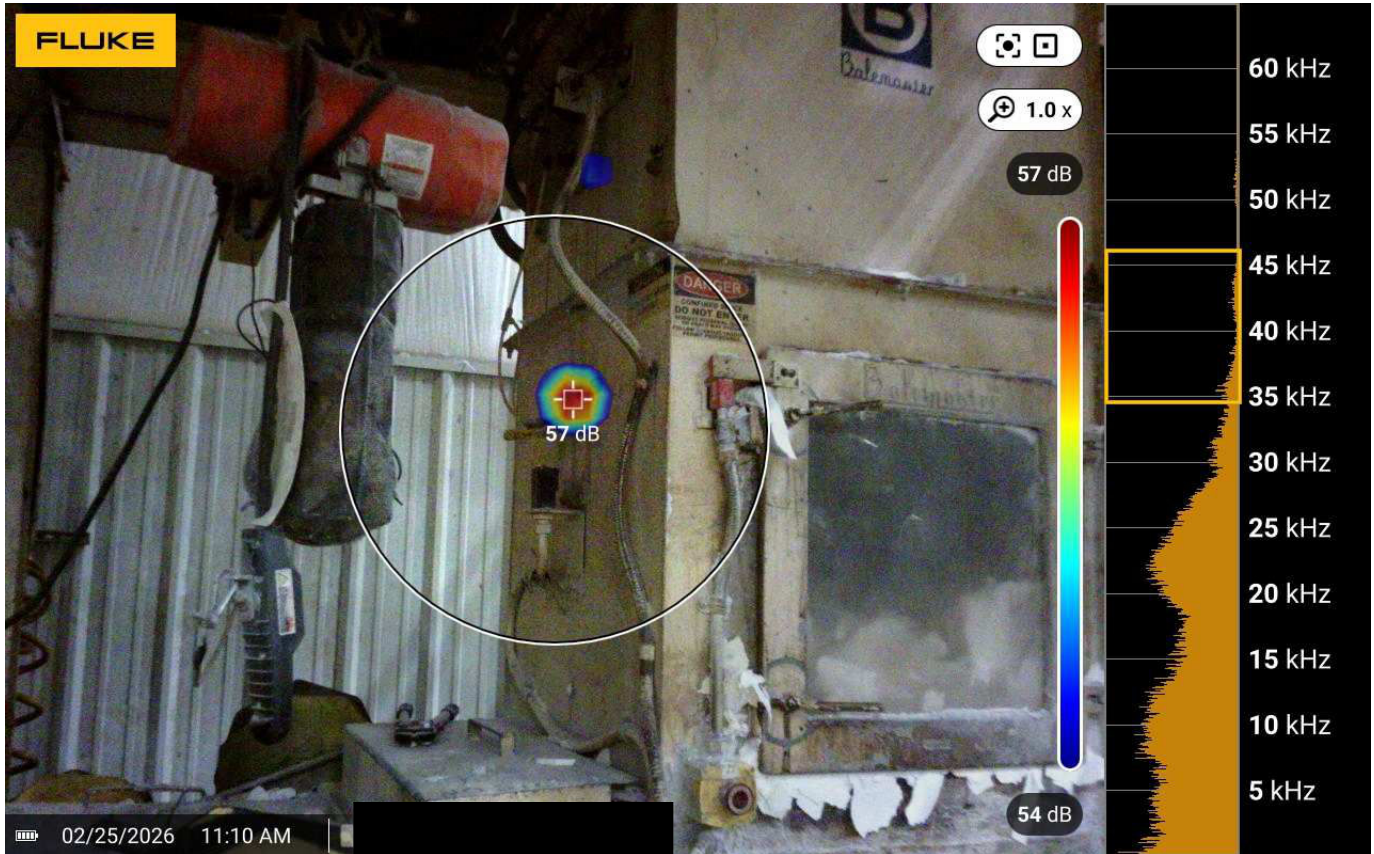
B

Leak 014

Significant - Repair at first opportunity

\$180 / year

1.12 CFM | LeakQ 6.4



Measurement data

Severity grade	B - Significant
LeakQ value	6.4 / 10
Est. leak rate	1.12 CFM
Est. annual cost	\$180 / year
Sound level at source	87.61 dB
Sound level at sensor	57.15 dB
Distance to source	32.81 FEET
Capture time	25/02/2026 16:10:32 PM

Location photo



Notes / location