



Report | Apr 13, 2021

LEAKEXPERT

Sample report

created by:

klang

SONAPHONE Serial:

10176

LeakExpert:

V1.5.13

number of measurements:

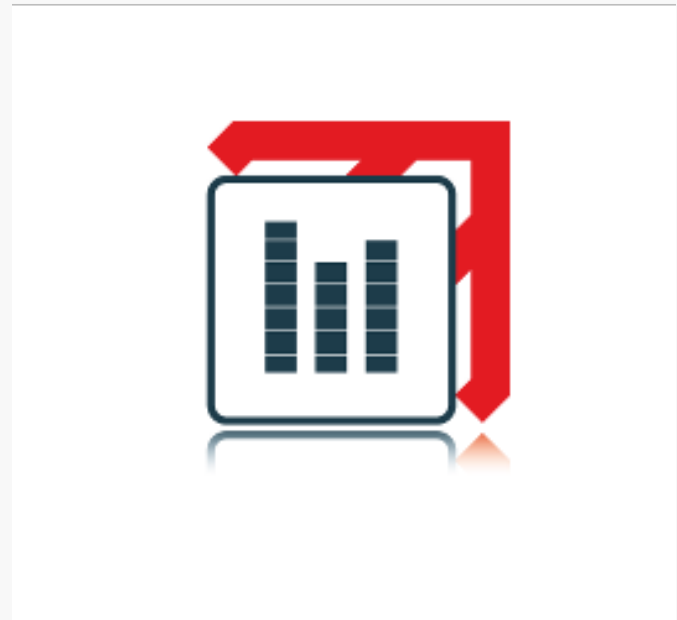
11

first - last measurement:

Apr 13, 2021 - Apr 13, 2021

address:

Sonotec GmbH
Nauendorfer Straße 2
06112 Halle



comment:

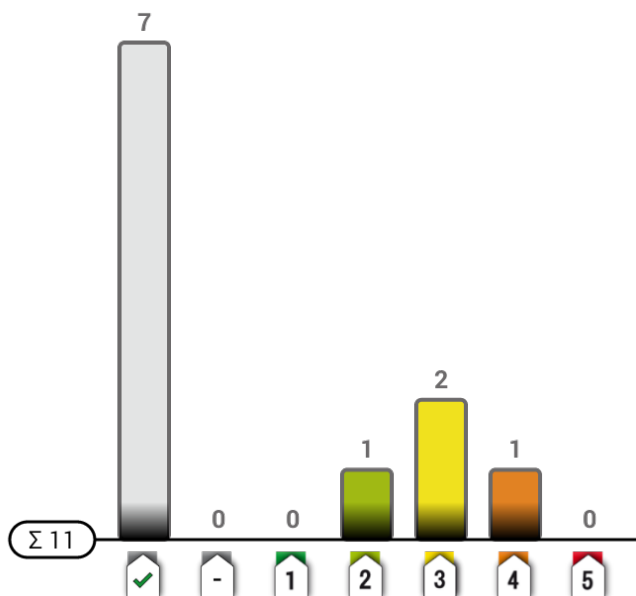
SONOTEC

 SONOTEC

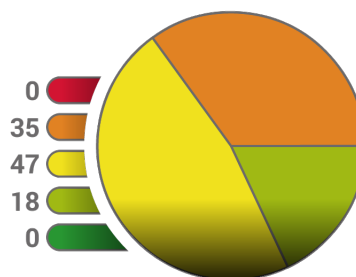


First measurement	Apr 13, 2021 10:52:18 AM	
Last measurement	Apr 13, 2021 10:55:35 AM	
Number of leakages	11 (11 rated)	
To be repaired?	11	
Repaired	7	
Total loss	257.53 l/min	15.45 m ³ /h
Repaired	222.23 l/min	13.33 m ³ /h
Not yet repaired	35.31 l/min	2.12 m ³ /h

Distribution of Leakages [Class]



Distribution of total loss [%]



- 1** ✓ Class 1: ≤ 5 l/min
- 2** ✓ Class 2: ≤ 7 l/min
- 3** ✓ Class 3: ≤ 10 l/min
- 4** ✓ Class 4: ≤ 15 l/min
- 5** ✓ Class 5: > 15 l/min
- Not rated
- ✓** Repaired

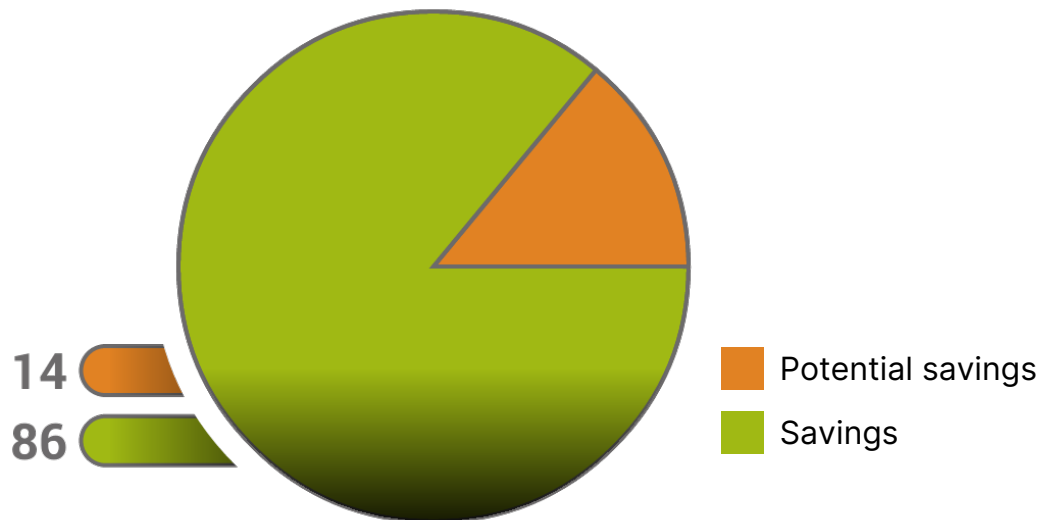


Total loss	3249 €/a	±650 €/a	0.37 €/h
Savings	2803 €/a	±561 €/a	0.32 €/h
Potential savings	445 €/a	±89 €/a	0.05 €/h

Calculation basis for losses and savings

Compressed air index	0.120 kWh/m ³	Production hours	8,760.0 h/a
Energy costs	0.15 €/kWh	Deviation	20 %

Savings potential [%]

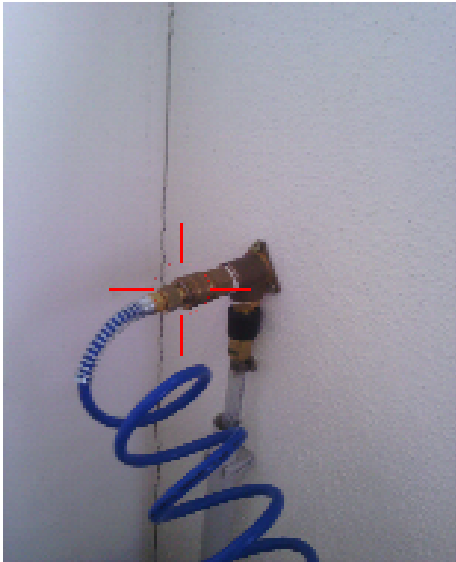



The process of estimating the amount of leakage in a compressed air system is part of DIN EN ISO 11011. This process provides data for energy management systems in accordance with DIN EN ISO 50001. In this report, the total loss is indicated in l/min and can be used to estimate the financial losses associated with the leakage, if data on the energy costs incurred when generating 1m³ of compressed air is available.




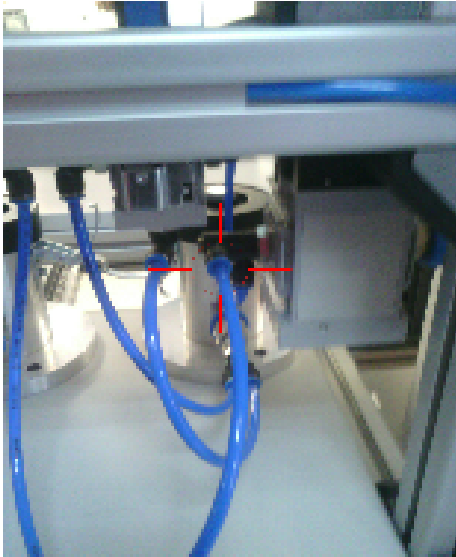
No.	Rating	ID	Loss [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date	Position (Building/Area/System/Component)	Repair state	Repair technician	Repair date
1		10176-489	12.17	69	8.0	Air	Medium	Sonotec	Apr 13, 2021	...ravure room/Preparation/Plug nipple	To be repaired	Kevin Lang	Apr 13, 2021
2		10176-488	8.13	74	4.0	Air	Medium	Sonotec	Apr 13, 2021	...all 2/Laboratory/Test rig/Hose clamp	To be repaired		
3		10176-494	8.09	74	4.0	Air	Low	Sonotec	Apr 13, 2021	...ocessing/Milling machine/Connector	To be repaired		
4		10176-487	6.92	58	4.0	Air	Low	Sonotec	Apr 13, 2021	...3/Production/Test device/Connector	To be repaired		
5		10176-497	65.57	97	8.0	Air	High	Sonotec	Apr 13, 2021	...ressed air connection/Shutoff valve	Repaired	Kevin Lang	Apr 13, 2021
6		10176-500	51.00	95	8.0	Air	High	Sonotec	Apr 13, 2021	...ocessing/Milling machine/Connector	Repaired	Kevin Lang	Apr 13, 2021
7		10176-490	36.55	91	8.0	Air	High	Sonotec	Apr 13, 2021	...mpressor air tank/Plug-in connector	Repaired	Kevin Lang	Apr 13, 2021
8		10176-501	29.60	89	8.0	Air	High	Sonotec	Apr 13, 2021	...g room/Grinding machine/Connector	Repaired	Kevin Lang	Apr 13, 2021
9		10176-493	13.74	83	8.0	Air	Medium	Sonotec	Apr 13, 2021	...g/Turning machine/Maintenance unit	Repaired	Kevin Lang	Apr 13, 2021
10		10176-492	13.09	77	8.0	Air	Medium	Sonotec	Apr 13, 2021	...Five-axis milling machine/Connector	Repaired	Kevin Lang	Apr 13, 2021
11		10176-491	12.68	74	8.0	Air	Medium	Sonotec	Apr 13, 2021	...ressed air distribution/Shutoff valve	Repaired	Kevin Lang	Apr 13, 2021




Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
4	10176-489	12.17	69	8.0	Air	Medium	Sonotec	Apr 13, 2021
							Notes	
								
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 2/Gravure room/Preparation/Plug nipple					To be repaired	Kevin Lang	Apr 13, 2021	

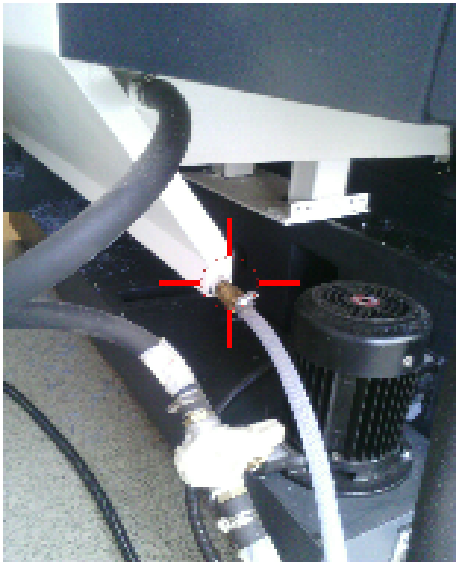
Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
3	10176-488	8.13	74	4.0	Air	Medium	Sonotec	Apr 13, 2021
							Notes	
								
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 2/Laboratory/Test rig/Hose clamp					To be repaired			

Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
3	10176-494	8.09	74	4.0	Air	Low	Sonotec	Apr 13, 2021
							Notes	
							direct connection without shut-off valve	
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 1/mechanical processing/Milling machine/Connector					To be repaired			


Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
2	10176-487	6.92	58	4.0	Air	Low	Sonotec	Apr 13, 2021
							Notes	
								
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 3/Production/Test device/Connector					To be repaired			




Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
<input checked="" type="checkbox"/>	10176-497	65.57	97	8.0	Air	High	Sonotec	Apr 13, 2021
							Notes	
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 1/mechanical processing/Compressed air connection/Shutoff valve					Repaired	Kevin Lang	Apr 13, 2021	

Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
<input checked="" type="checkbox"/>	10176-500	51.00	95	8.0	Air	High	Sonotec	Apr 13, 2021
							Notes	
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 1/mechanical processing/Milling machine/Connector					Repaired	Kevin Lang	Apr 13, 2021	

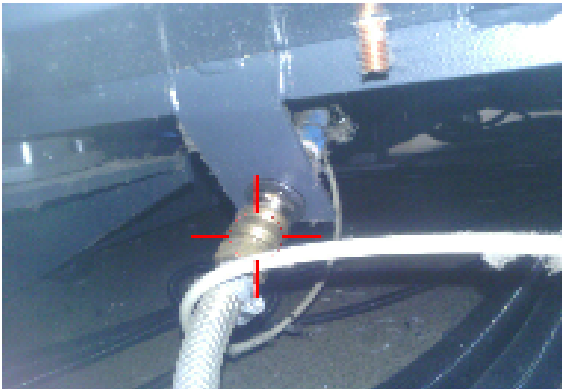


Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
<input checked="" type="checkbox"/>	10176-490	36.55	91	8.0	Air	High	Sonotec	Apr 13, 2021
							Notes	
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 1/Compressor room/Compressor air tank/Plug-in connector					Repaired	Kevin Lang	Apr 13, 2021	


Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
<input checked="" type="checkbox"/>	10176-501	29.60	89	8.0	Air	High	Sonotec	Apr 13, 2021
							Notes	
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 3/Grinding room/Grinding machine/Connector					Repaired	Kevin Lang	Apr 13, 2021	



Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
<input checked="" type="checkbox"/>	10176-493	13.74	83	8.0	Air	Medium	Sonotec	Apr 13, 2021
							Notes reseal	
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 1/mechanical processing/Turning machine/Maintenance unit					Repaired	Kevin Lang	Apr 13, 2021	

Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
<input checked="" type="checkbox"/>	10176-492	13.09	77	8.0	Air	Medium	Sonotec	Apr 13, 2021
							Notes	
								
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 1/mechanical processing/Five-axis milling machine/Connector					Repaired	Kevin Lang	Apr 13, 2021	



Rating	ID	LOSS [l/min]	L _{eq} [dB]	p [bar g]	Gas	Priority	Tester	Date
<input checked="" type="checkbox"/>	10176-491	12.68	74	8.0	Air	Medium	Sonotec	Apr 13, 2021
							Notes use sealing cord for repairs	
Position (Building/Area/System/Component)					Repair state	Repair technician	Repair date	
Hall 1/Compressor room/Compressed air distribution/Shutoff valve					Repaired	Kevin Lang	Apr 13, 2021	