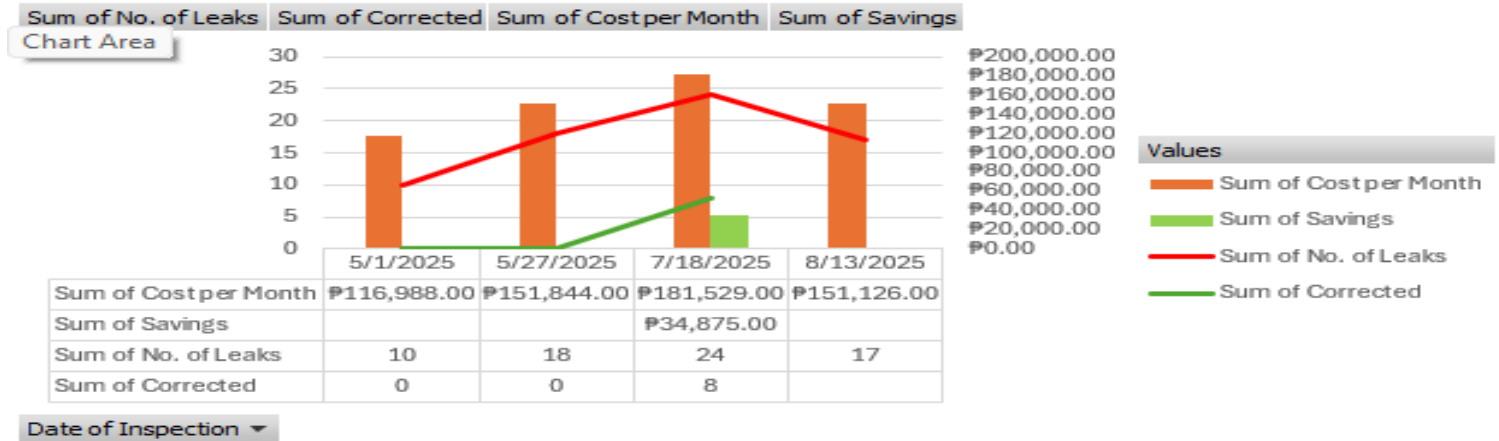




CBM – Ultrasonic Leak Detection

Area: Properzi 1 | Plates
Date of Leak Inspection: August 15 2025
Type of Gas: **Air** - 7 | **LPG** - 10
Total Identified Leak: **17**
Total Estimated Leak Cost/Month: **PHP 151,126**
Inspected by: **Lorenzo Angelo Rabino | 40001240**

History Thread



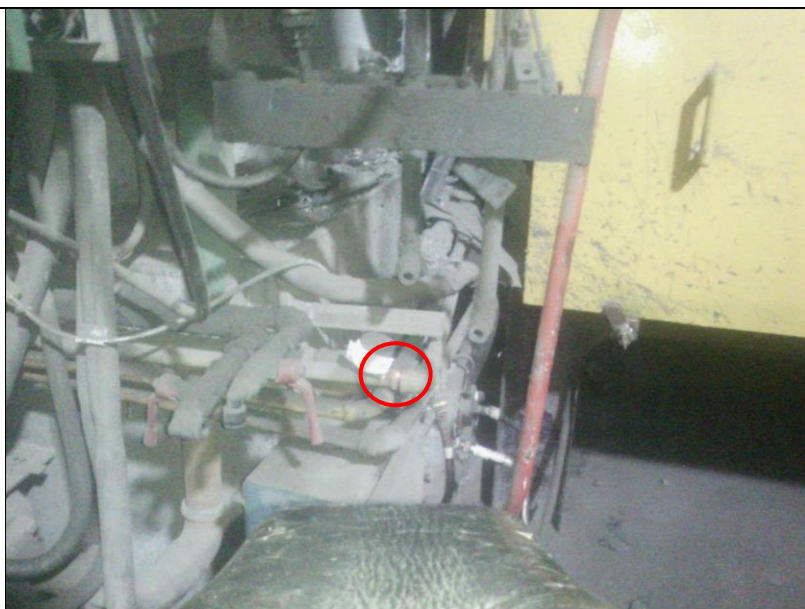
Previous History

Re	Pre Re	Problem Description	Location Name	Leak Start	Months	Isolation Valve	Affected Area
1	1	Fabricated Elbow	Properzi 1 21T Melting Pot	May 2025	3	✓	Properzi 1 21T Melting Pot
2	2	Nipple Pipe Thread	Properzi 1 21T Melting Pot	May 2025	3	✓	Properzi 1 21T Melting Pot
3	3	Nipple Pipe Thread	Properzi 1 21T Melting Pot	May 2025	3	✓	Properzi 1 21T Melting Pot
4	4	Union Patente Thread	Properzi 1 21T Melting Pot	May 2025	3	✓	Properzi 1 21T Melting Pot
5	5	Adapter Thread	Properzi 1 8T Melting Pot	May 2025	3	✓	Properzi 1 8T Melting Pot
6	6	Adapter Thread	Properzi 1 8T Melting Pot	May 2025	3	✓	Properzi 1 8T Melting Pot
7	7	End Plug Thread	Properzi 1 8T Melting Pot	May 2025	3	✓	Properzi 1 8T Melting Pot
8	8	Nipple Pipe Thread	Properzi 1 8T Melting Pot	May 2025	3	✓	Properzi 1 8T Melting Pot
9	9	End Plug Thread	Properzi 1 8T Melting Pot	May 2025	3	✓	Properzi 1 8T Melting Pot
10	10	Adapter Thread	Properzi 1 21T Melting Pot	May 2025	3	✓	Properzi 1 21T Melting Pot
11	11	Ball Valve Thread	Properzi 1 21T Melting Pot	June 2025	2	✓	Properzi 1 21T Melting Pot
12	12	Push-in Male Elbow Fittings	Properzi 1 8T Melting Pot	July 2025	1	✓	Properzi 1 8T Melting Pot
13	16	Push-in Male Fittings	Properzi 1 Casting	July 2025	1	✓	Properzi 1 Casting
14	17	Push-in Male Fittings Thread	Properzi 1 Casting	July 2025	1	✓	Properzi 1 Casting
15	18	Solenoid Valve	Properzi 1 Casting	July 2025	1	✓	Properzi 1 Casting
16	19	Pneumatic Cylinder Rod Seal	Properzi 1 Casting	July 2025	1	✓	Properzi 1 Casting
17	21	FRL	Properzi 1 Timmer	July 2025	1	✓	Properzi 1 Timmer

Summary of Findings

Record Number	Leak Condition New / Previous Rec#	Leak Category (1,2,3,4)	Date of Survey	Group Name	Location Name	Type of Gas	Pressure at Leak	dB Reading	Problem Description	With Isolation Valve (✓, ✗)	Isolation Affected Area	Identified Leaks Cost Avoidance Per Month (Php)	Size of Leak (CFM)	Energy Avoidance (kWh)
1	1	1,3	13-Aug	Plates	Properzi 1 21T Melting Pot	LPG	25	8	Fabricated Elbow	✓	Properzi 1 21T Melting Pot	Php5,187	0.1	N/A
2	2	1,3	13-Aug	Plates	Properzi 1 21T Melting Pot	LPG	25	9	Nipple Pipe Thread	✓	Properzi 1 21T Melting Pot	Php6,502	0.1	N/A
3	3	1,3	13-Aug	Plates	Properzi 1 21T Melting Pot	LPG	25	19	Nipple Pipe Thread	✓	Properzi 1 21T Melting Pot	Php27,265	0.3	N/A
4	4	1,3	13-Aug	Plates	Properzi 1 21T Melting Pot	LPG	25	8	Union Patente Thread	✓	Properzi 1 21T Melting Pot	Php5,187	0.1	N/A
5	5	1,3	13-Aug	Plates	Properzi 1 8T Melting Pot	LPG	25	21	Adapter Thread	✓	Properzi 1 8T Melting Pot	Php33,036	0.3	N/A
6	6	1,3	13-Aug	Plates	Properzi 1 8T Melting Pot	LPG	25	7	Adapter Thread	✓	Properzi 1 8T Melting Pot	Php4,014	0.0	N/A
7	7	1,3	13-Aug	Plates	Properzi 1 8T Melting Pot	LPG	25	9	End Plug Thread	✓	Properzi 1 8T Melting Pot	Php6,502	0.1	N/A
8	8	1,3	13-Aug	Plates	Properzi 1 8T Melting Pot	LPG	25	7	Nipple Pipe Thread	✓	Properzi 1 8T Melting Pot	Php4,014	0.0	N/A
9	9	1,3	13-Aug	Plates	Properzi 1 8T Melting Pot	LPG	25	10	End Plug Thread	✓	Properzi 1 8T Melting Pot	Php7,958	0.1	N/A
10	10	1,3	13-Aug	Plates	Properzi 1 21T Melting Pot	LPG	25	15	Adapter Thread	✓	Properzi 1 21T Melting Pot	Php17,324	0.2	N/A
11	11	1,3	13-Aug	Plates	Properzi 1 21T Melting Pot	Air	75	70	Ball Valve Thread	✓	Properzi 1 21T Melting Pot	Php4,570	4.8	10753
12	12	1,3	13-Aug	Plates	Properzi 1 8T Melting Pot	Air	75	71	Push-in Male Elbow Fittings	✓	Properzi 1 8T Melting Pot	Php4,668	4.9	10984
13	16	1,3	13-Aug	Plates	Properzi 1 Casting	Air	75	76	Push-in Male Fittings	✓	Properzi 1 Casting	Php5,169	5.4	12162
14	17	1,3	13-Aug	Plates	Properzi 1 Casting	Air	75	65	Push-in Male Fittings Thread	✓	Properzi 1 Casting	Php4,090	4.3	9623
15	18	1,3	13-Aug	Plates	Properzi 1 Casting	Air	75	97	Solenoid Valve	✓	Properzi 1 Casting	Php7,449	7.8	17528
16	19	1,3	13-Aug	Plates	Properzi 1 Casting	Air	75	61	Pneumatic Cylinder Rod Seal	✓	Properzi 1 Casting	Php3,719	3.9	8750
17	21	1,3	13-Aug	Plates	Properzi 1 Timmer	Air	75	69	FRL	✓	Properzi 1 Timmer	Php4,473	4.7	10524

Record Number	1
Gas Line	LPG
Location	Properzi 1 21T Melting Pot
Problem Description	Fabricated Elbow Leak
dB reading	8
Size of Leak (CFM)	0.1
Energy Avoidance(kWH)	N/A
Cost Avoidance (Php)/ Month	5,187
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	1
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 21T Melting Pot



Record Number	2
Gas Line	LPG
Location	Properzi 1 21T Melting Pot
Problem Description	Nipple Pipe Thread Leak
dB reading	9
Size of Leak (CFM)	0.1
Energy Avoidance(kWH)	N/A
Cost Avoidance (Php)/ Month	6,502
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	2
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 21T Melting Pot



Record Number	3
Gas Line	LPG
Location	Properzi 1 21T Melting Pot
Problem Description	Nipple Pipe Thread Leak
dB reading	19
Size of Leak (CFM)	0.3
Energy Avoidance(kWH)	N/A
Cost Avoidance (Php)/ Month	27,265
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	3
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 21T Melting Pot



Record Number	4
Gas Line	LPG
Location	Properzi 1 21T Melting Pot
Problem Description	Union Patente Thread Leak
dB reading	8
Size of Leak (CFM)	0.1
Energy Avoidance(kWH)	N/A
Cost Avoidance (Php)/ Month	5,187
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	4
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 21T Melting Pot



Record Number	5
Gas Line	LPG
Location	Properzi 1 8T Melting Pot
Problem Description	Adapter Thread Leak
dB reading	21
Size of Leak (CFM)	0.3
Energy Avoidance(kWH)	N/A
Cost Avoidance (Php)/ Month	33,036
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	5
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 8T Melting Pot



Record Number	6
Gas Line	LPG
Location	Properzi 1 8T Melting Pot
Problem Description	Adapter Thread Leak
dB reading	7
Size of Leak (CFM)	0.0
Energy Avoidance(kWH)	N/A
Cost Avoidance (Php)/ Month	4,014
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	6
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 8T Melting Pot



Record Number	7
Gas Line	LPG
Location	Properzi 1 8T Melting Pot
Problem Description	End Plug Thread Leak
dB reading	9
Size of Leak (CFM)	0.1
Energy Avoidance(kWH)	N/A
Cost Avoidance (Php)/ Month	6,502
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	7
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 8T Melting Pot



Record Number	8
Gas Line	LPG
Location	Properzi 1 8T Melting Pot
Problem Description	Nipple Pipe Thread Leak
dB reading	7
Size of Leak (CFM)	0.0
Energy Avoidance(kWH)	N/A
Cost Avoidance (Php)/ Month	4,014
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	8
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 8T Melting Pot



Record Number	9
Gas Line	LPG
Location	Properzi 1 8T Melting Pot
Problem Description	End Plug Thread Leak
dB reading	10
Size of Leak (CFM)	0.1
Energy Avoidance(kWH)	N/A
Cost Avoidance (Php)/ Month	7,958
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	9
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 8T Melting Pot



Record Number	10
Gas Line	LPG
Location	Properzi 1 21T Melting Pot
Problem Description	Adapter Thread Leak
dB reading	15
Size of Leak (CFM)	0.2
Energy Avoidance(kWH)	N/A
Cost Avoidance (Php)/ Month	17,324
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	10
Leak Category (1,2,3,4)	2,3
With Isolation Valve	✓
Isolation Affected Area	21T Melting Pot



Record Number	11
Gas Line	Air
Location	Properzi 1 21T Melting Pot
Problem Description	Ball Valve Thread Leak
dB reading	70
Size of Leak (CFM)	4.8
Energy Avoidance(kWH)	10753
Cost Avoidance (Php)/ Month	4,570
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	11
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 21T Melting Pot



Record Number	12
Gas Line	Air
Location	Properzi 1 8T Melting Pot
Problem Description	Push-in Male Elbow Fittings Leak
dB reading	71
Size of Leak (CFM)	4.9
Energy Avoidance(kWH)	10984
Cost Avoidance (Php)/ Month	4,668
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	12
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 8T Melting Pot



Record Number	13
Gas Line	Air
Location	Properzi 1 Casting
Problem Description	Push-in Male Fittings Leak
dB reading	76
Size of Leak (CFM)	5.4
Energy Avoidance(kWH)	12162
Cost Avoidance (Php)/ Month	5,169
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	16
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 Casting



Record Number	14
Gas Line	Air
Location	Properzi 1 Casting
Problem Description	Push-in Male Fittings Thread Leak
dB reading	65
Size of Leak (CFM)	4.3
Energy Avoidance(kWH)	9623
Cost Avoidance (Php)/ Month	4,090
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	17
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 Casting



Record Number	15
Gas Line	Air
Location	Properzi 1 Casting
Problem Description	Solenoid Valve Leak
dB reading	97
Size of Leak (CFM)	7.8
Energy Avoidance(kWH)	17528
Cost Avoidance (Php)/ Month	7,449
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	18
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 Casting



Record Number	16
Gas Line	Air
Location	Properzi 1 Casting
Problem Description	Pneumatic Cylinder Rod Seal Leak
dB reading	61
Size of Leak (CFM)	3.9
Energy Avoidance(kWH)	8750
Cost Avoidance (Php)/ Month	3,719
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	19
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 Casting



Record Number	17
Gas Line	Air
Location	Properzi 1 Timmer
Problem Description	FRL Leak
dB reading	69
Size of Leak (CFM)	4.7
Energy Avoidance(kWH)	10524
Cost Avoidance (Php)/ Month	4,473
Leak Condition (N-New Leak, Previous Rec # - Old Leak)	21
Leak Category (1,2,3,4)	1,3
With Isolation Valve	✓
Isolation Affected Area	Properzi 1 Timmer

