



Lambert Condition Monitoring Ltd

# Leak Detection Summary Report

Prepared by David Lambert

14 July 2014

# Report Summary

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Sample

14 July 2014

Expires: 25.12.2014

Prepared by David Lambert

<b>Survey Summary</b>	<b>Total</b>
Total Number of Leaks Detected	15
Annual Energy Cost of Leaks Detected	\$3877
Annual Energy Use of Leaks Detected (kWh)	38770kWh
Annual CO2 Emissions of Leaks Detected (tonnes)	6.53
These costs are based on 5.5 days 24 hours system operation per year and \$0.10	per kWh

<b>Achieved Savings</b>	
Annual Energy Cost	\$0
Annual Energy Use (kWh)	0kWh
Annual CO2 Emissions (tonnes)	.0

# Photo ID Leaks Summary

Sample  
 14 July 2014  
 Expires: 3.3.2014  
 Prepared by David Lambert

Leaks

(8) Leaks Total



Inspection Date	3.9.2013
Tag ID	1350a
Location	Compressor Shed
Description	Safety valve
Equipment Type	
Ultrasonic (db)	28dB
Pressure (bar)	7bar
Air Leak Rate (L <sup>3</sup> /min)	.2
Annual Energy Loss (kWh)	700
Annual Energy Cost	\$70
Repaired	



Inspection Date	3.9.2013
Tag ID	1350b
Location	Packhouse
Description	Bagger
Equipment Type	Ram connector
Ultrasonic (db)	30dB
Pressure (bar)	7bar
Air Leak Rate (L <sup>3</sup> /min)	1.28
Annual Energy Loss (kWh)	790
Annual Energy Cost	\$79
Repaired	



Inspection Date	3.9.2013
Tag ID	1350c
Location	Packhouse
Description	Carton erector
Equipment Type	Regulator connector
Ultrasonic (db)	44dB
Pressure (bar)	7bar
Air Leak Rate (L <sup>3</sup> /min)	.741
Annual Energy Loss (kWh)	1780
Annual Energy Cost	\$178
Repaired	



Inspection Date	3.9.2013
Tag ID	1350d
Location	Packhouse
Description	Carton erector
Equipment Type	Regulator
Ultrasonic (db)	50dB
Pressure (bar)	7dB
Air Leak Rate (L <sup>3</sup> /min)	.534
Annual Energy Loss (kWh)	2510
Annual Energy Cost	\$251
Repaired	



Inspection Date	3.9.2013
Tag ID	1350e
Location	Packhouse
Description	Hume machine Line 2
Equipment Type	Ram connector
Ultrasonic (db)	60dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	.223
Annual Energy Loss (kWh)	4460
Annual Energy Cost	\$446
Repaired	



Inspection Date	3.9.2013
Tag ID	1350f
Location	Packhouse
Description	Hume machine Line 2
Equipment Type	Ram connector
Ultrasonic (db)	57dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	.248
Annual Energy Loss (kWh)	3750
Annual Energy Cost	\$375
Repaired	



Inspection Date	3.9.2013
Tag ID	1350g
Location	Packhouse
Description	Filter plant
Equipment Type	Water trap
Ultrasonic (db)	40dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	1.028
Annual Energy Loss (kWh)	1400
Annual Energy Cost	\$140
Repaired	



Inspection Date	3.9.2013
Tag ID	1350h
Location	Packhouse
Description	Apple wash
Equipment Type	connector
Ultrasonic (db)	49dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	.429
Annual Energy Loss (kWh)	2370
Annual Energy Cost	\$237
Repaired	



Inspection Date	6.9.2013
Tag ID	1350i
Location	Generator 2
Description	Receiver drain
Equipment Type	Tap stem
Ultrasonic (db)	35dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	.992
Annual Energy Loss (kWh)	2110
Annual Energy Cost	\$211
Repaired	



Inspection Date	6.9.2013
Tag ID	1350j
Location	Generator 2
Description	Regulator connection
Equipment Type	Pipe thread
Ultrasonic (db)	45dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	.63
Annual Energy Loss (kWh)	2350
Annual Energy Cost	\$235
Repaired	



Inspection Date	6.9.2013
Tag ID	1350k
Location	Generator 2
Description	Pipe reducer
Equipment Type	Pipe thread
Ultrasonic (db)	45dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	.384
Annual Energy Loss (kWh)	2350
Annual Energy Cost	\$235
Repaired	



Inspection Date	6.9.2013
Tag ID	1350l
Location	Generator 2
Description	Valve
Equipment Type	Base
Ultrasonic (db)	60dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	.992
Annual Energy Loss (kWh)	5580
Annual Energy Cost	\$558
Repaired	



Inspection Date	6.9.2013
Tag ID	1350m
Location	Generator 2
Description	Push fitting
Equipment Type	
Ultrasonic (db)	50dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	.63
Annual Energy Loss (kWh)	3140
Annual Energy Cost	\$314
Repaired	



Inspection Date	6.9.2013
Tag ID	1350n
Location	Packhouse
Description	Main piping
Equipment Type	Elbow thread
Ultrasonic (db)	52dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	.384
Annual Energy Loss (kWh)	2820
Annual Energy Cost	\$282
Repaired	



Inspection Date	6.9.2013
Tag ID	1350o
Location	Packhouse
Description	Main pipe
Equipment Type	Elbow
Ultrasonic (db)	62dB
Pressure (bar)	7 bar
Air Leak Rate (L <sup>3</sup> /min)	.992
Annual Energy Loss (kWh)	5010
Annual Energy Cost	\$501
Repaired	

## Leaks Summary Table

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Sample

14 July 2014

Expires: 3.3.2014

Prepared by David Lambert

ID#	Location	Description	Equipment	Energy (kWh per year)
1350a	Compressor shed	Safety valve	connection	700
1350b	Packhouse	Carton erector	Duster gun	790
1350c	Packhouse	Carton erector	Control valve	1780
1350d	Packhouse	Carton erector	Regulator connect	2510
1350e	Packhouse	Hume carton line 2	Ram connector	4460
1350f	Packhouse	Hume carton line 2	Ram connector	3750
1350g	Packhouse	Filter plant	Water trap	1400
1350h	Packhouse	Apple wash	Thread connect	2370
1350i	Generator 2	Receiver drain	Tap stem	2110
1350j	Generator 2	Air regulator	Thread	2350
1350k	Generator 2	Pipe reducer	Thread	2350
1350l	Generator 2	Valve	Base	5580
1350m	Generator 2	Push fitting	connector	3140
1350n	Packhouse	Main pipe	Elbow	2820
1350o	Packhouse	Main pipe	Elbow	5010