



Air Leak Case Study



BENEFITS:

- Eliminate excess air usage
- Lower dew point on compressed air system
- Remove excess portable air compressors
- Shut down permanent compressor to use only as backup, if needed
- Identify gas leaks during a compressed air leak survey

BACKGROUND:

The client is a leading producer of oil and gas in the U.S. They employ over 1,400 employees and over 1,000 contractors and is located on about 1500 acres. Client is refining 340,000 barrels per day.

THE TASK:

To locate and identify enough air leaks to shutdown multiple portable air compressors

SOLUTION:

Locate all compressed air leaks using ultrasonic equipment and supply customer with a detailed Excel report with the following information: size of leak, location of leak, tag number, CFM loss per leak, and total dollar loss per year.

RESULTS:

- Client was able to shut down multiple portable compressors and one permanent compressor equaling over 9,000 cfm of air recaptured after survey was completed and repairs were made
- Client was able to lower dew point on compressed air system and reduce air dryer load

AIR LEAK SURVEY

- Total Leaks - 1,726
- Total CFM - 13,424
- Est. Annual \$ Loss - \$688,308

RECOMMENDATIONS:

For the client to implement a yearly compressed air leak survey into the preventative maintenance program to keep unneeded air compressors shut down.

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