

Job Scope: To perform informational Visual Inspections with Ultrasonic Testing (UT) on a Horizontal Separator Package (A0521805). This package includes a horizontal Separator and Blowcase.

A0521805 Separator Package Overview



Results Summary:

- **VE:** An informational external visual inspection was performed on the Separator, Blowcase, external piping, associated PSVs, and associated components and supports. There were only minor external concerns identified during inspection. See the attached pages of this report for VE results and inspection photos.
- **VI:** An informational internal visual inspection was performed from the manway with a flashlight and camera. There was limited visibility to some internal surfaces due to residual product. There were little visible internal concerns identified.
- **UT:** UT baselines were completed on the shell, heads, nozzles and external piping. Internal damage was detected in some of the drain piping. See the Lance Inspections UTS report ([UT_A0521805_oct2025](#)) and data for CML locations and thickness results.

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Assistant: Karsyn Utz





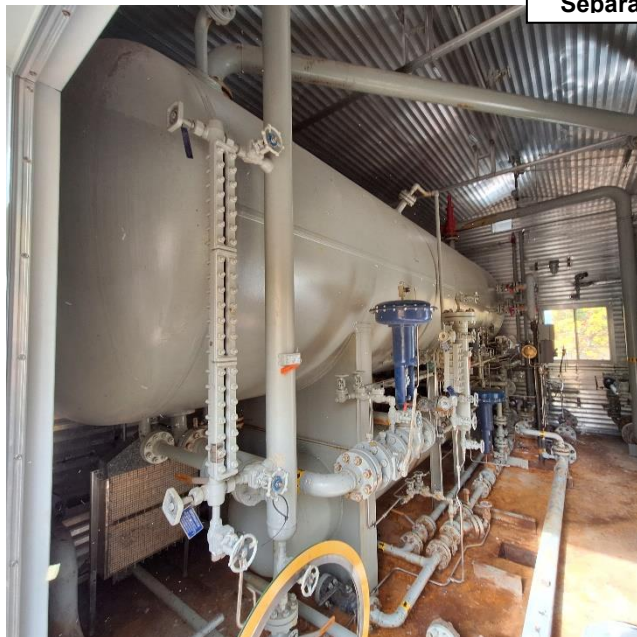
Visual Inspection Information – 72” ID Horizontal Separator (A0521805)

Note: This vessel was not operating during inspection.

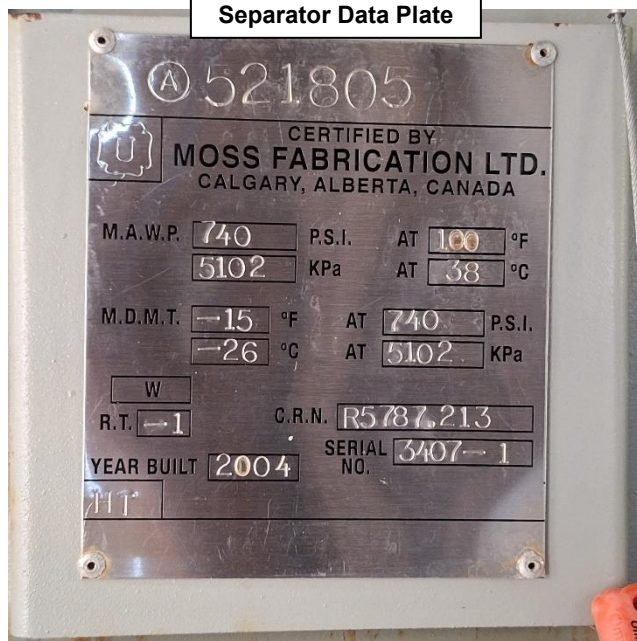
- **Nameplate:** Firmly fastened and legible.
- **Foundation/Support:** This vessel is supported by two saddle supports. No visible signs of damage.
- **External Surface:** This vessel is carbon steel, painted, and uninsulated. No mechanical damage or deflection observed. Minor paint damage and staining noted on vessel shell.
- **Insulation:** This vessel is uninsulated.
- **Ladder/Platform:** No associated ladder or platform.
- **External Piping:** All external piping is painted and appears to be properly supported with no signs of overload or external damage. Surface corrosion with no notable wall loss was observed in some external piping. Some piping was disconnected/not installed at the time of inspection.
- **Nozzles:** No signs of damage or deflection.
- **Manway:** This vessel has a 24” manway with no notable external deficiencies.
- **Overpressure Protection:** There was one PSV installed on the Separator at the time of inspection. PSV SN CF3301-002 was last serviced on May 16, 2013, by Unified Valve.
- **External Components:** This package has three attached liquid level columns, four Catadyne heaters, one Roughneck heater, a Barton Meter, a Wizard Controller and an air quality monitoring system installed. All appear to be in good condition.
- **Internal Coating:** Appears to be in good visible condition from the manway. The coating on the manway edges is starting to deteriorate. Some surfaces are not visible due to residual product in the bottom.
- **Internal Components:** Visible internal components from the manway include, a demister vane plate, a deflector plate, one side of a weir, one side of a baffle, and internal nozzles. All visible internal components appear to be in good condition.
- **24” OD Horizontal Blowcase (A0521806):** Data plate attached and legible. Painted and Uninsulated. No signs of mechanical damage or deflection. One PSV installed; SN IBT01612-48, last serviced on May 16, 2013 by Unified Valve. 24” Manway not opened for internal assessment at the time of inspection.

Visual Inspection Photos – Horizontal Separator (A0521805)

Separator Overviews



Separator Data Plate



Separator Support



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**Informational Visual
Inspection Report**
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Visual Inspection Photos – Horizontal Separator (A0521805)

Top of Separator



Bottom of Separator



Liquid Level Columns



MOSS FABRICATION LTD.
CRN OH 5275.2
S/N 3407-3
MAWP 740 PSI AT 100 °F



MOSS FABRICATION LTD.
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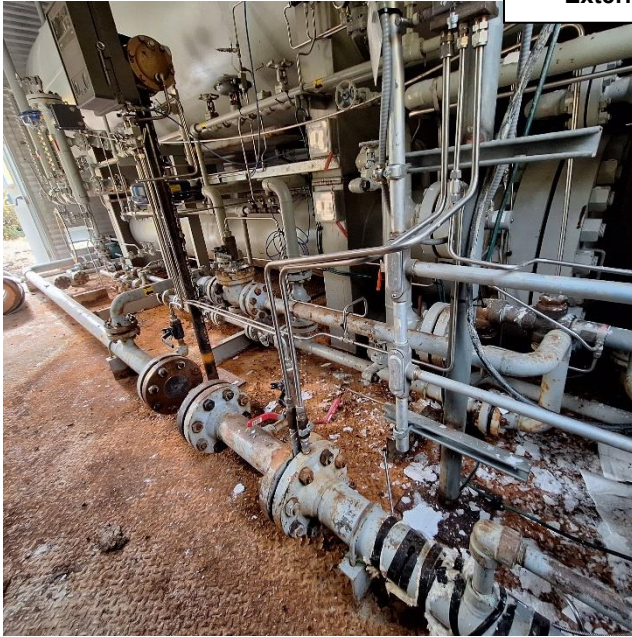


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Visual Inspection Photos – Horizontal Separator (A0521805)

External Piping

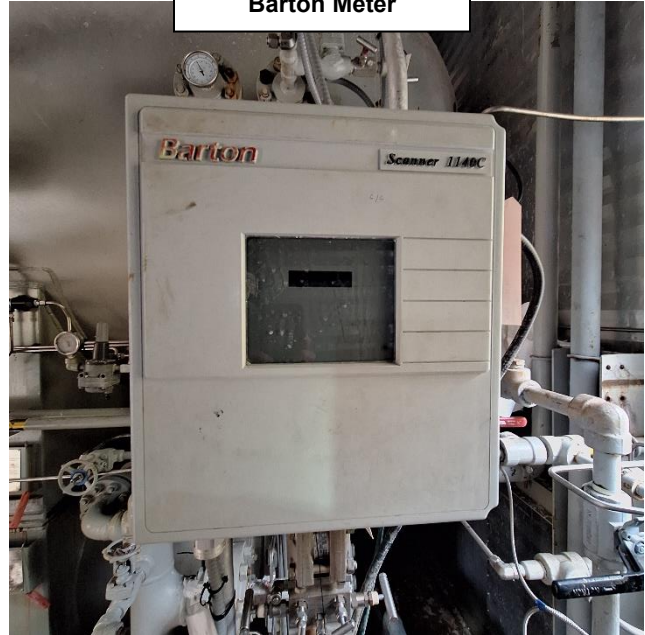


Visual Inspection Photos – Horizontal Separator (A0521805)

Catadyne Heaters



Barton Meter



Wizard Controller



Air Quality Monitoring



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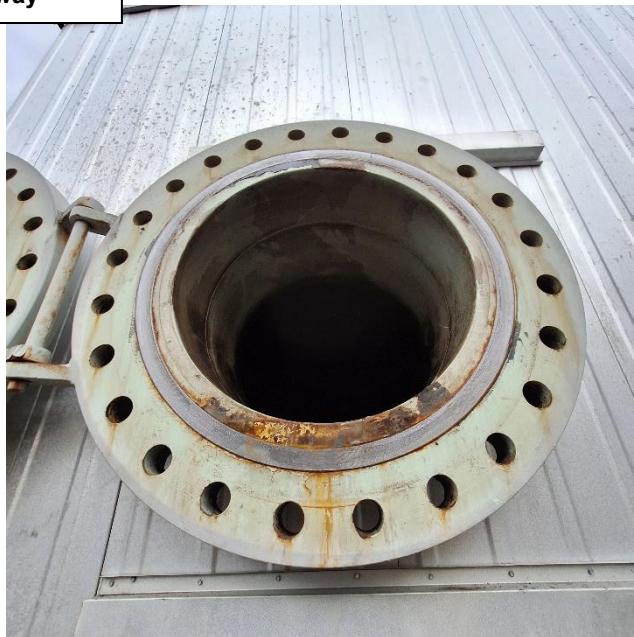


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Visual Inspection Photos – Horizontal Separator (A0521805)

Manway

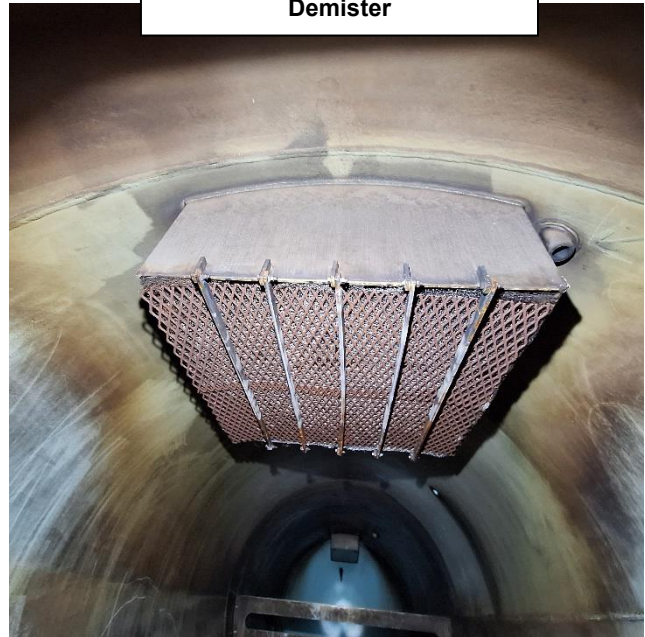


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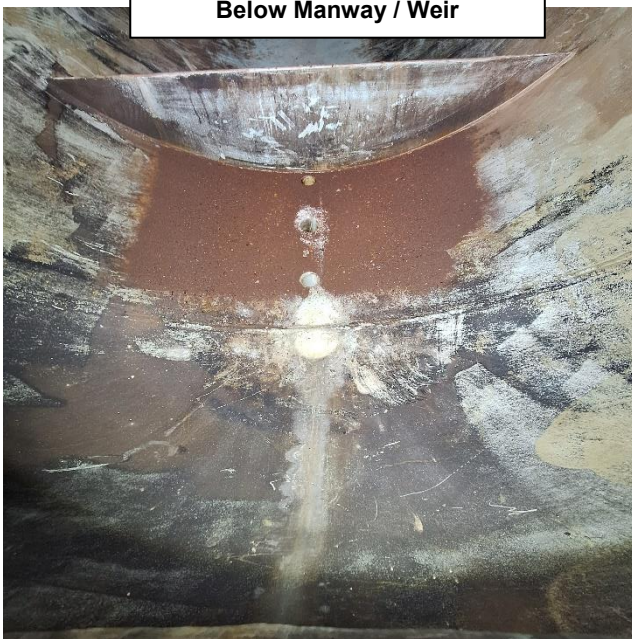
Internal Overview from Manway



Demister



Below Manway / Weir



Baffle



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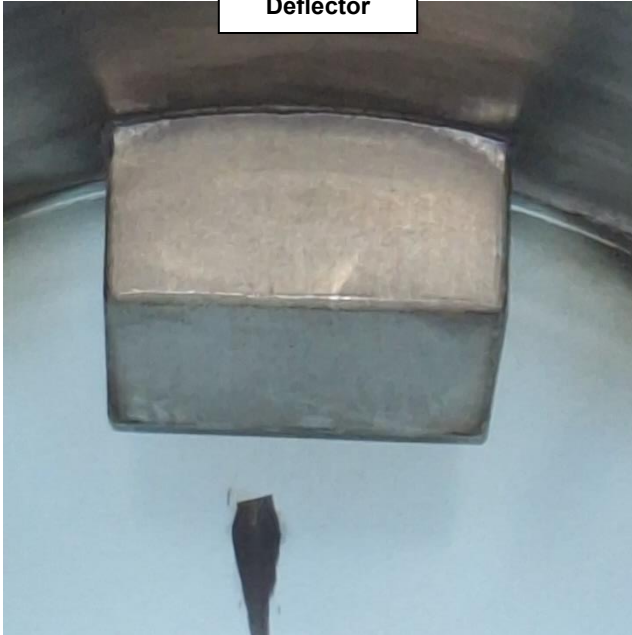


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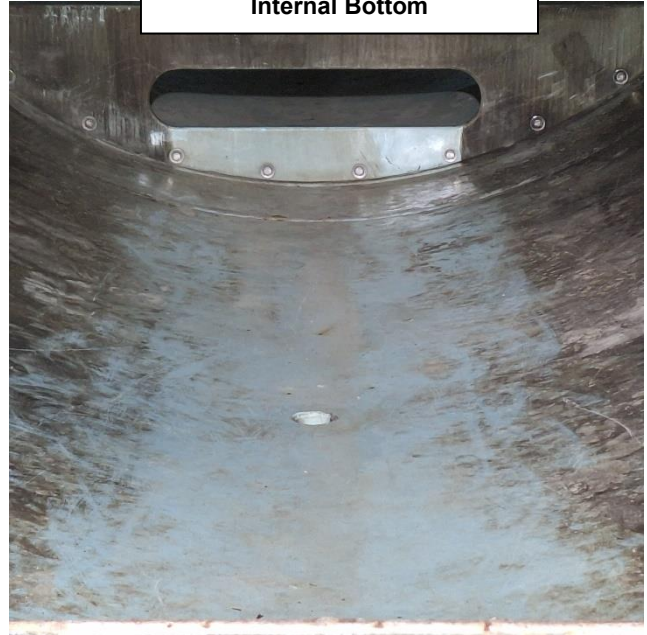
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Visual Inspection Photos – Horizontal Separator (A0521805)

Deflector



Internal Bottom



Sides of Internal Shell



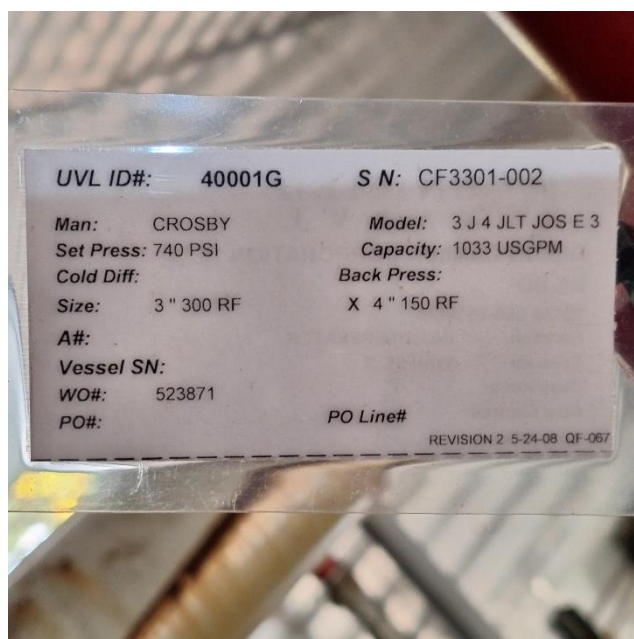
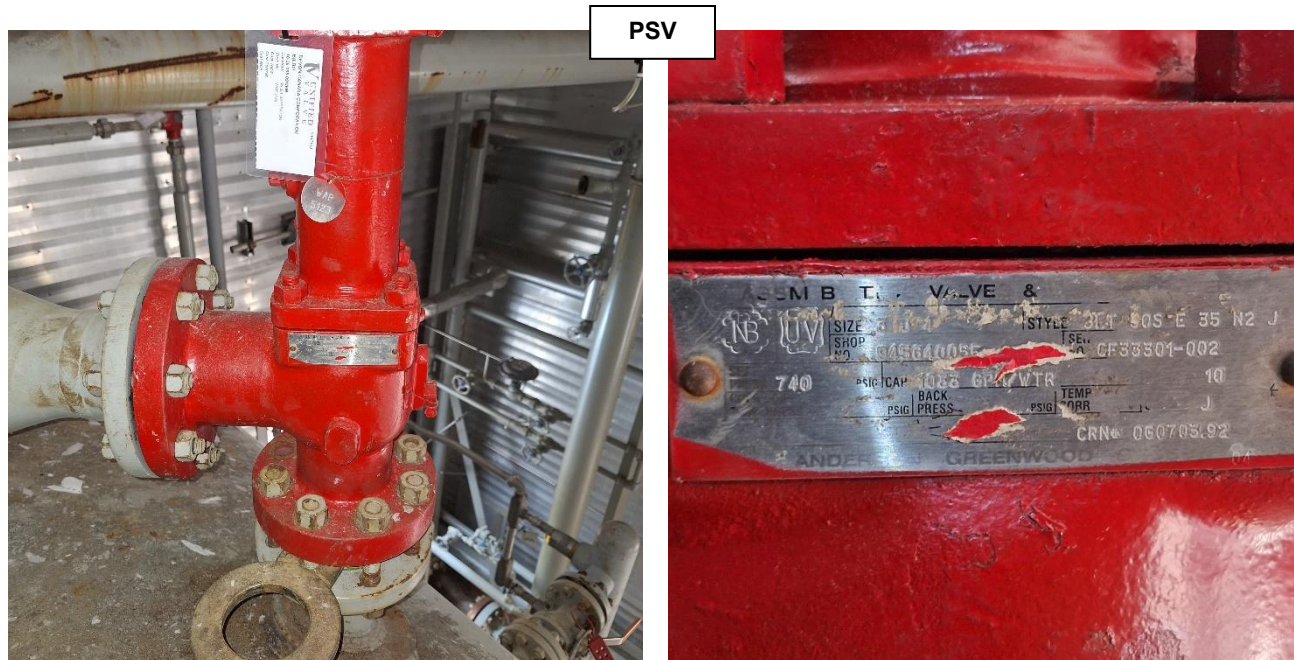
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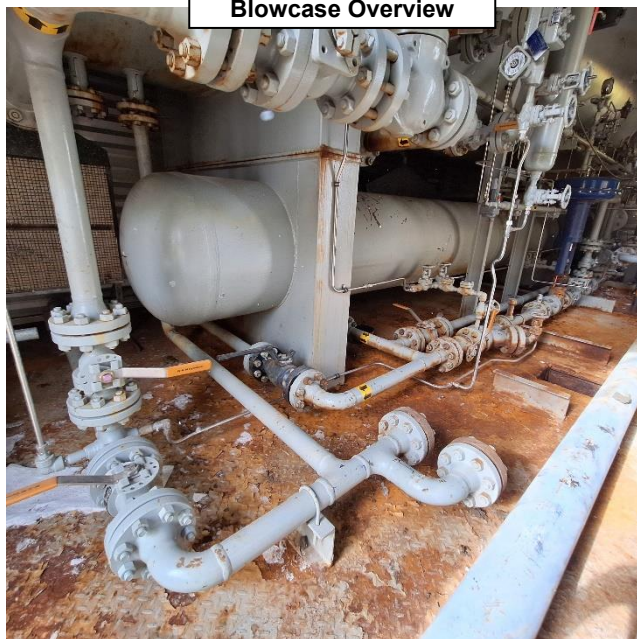
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Visual Inspection Photos – Horizontal Separator (A0521805)

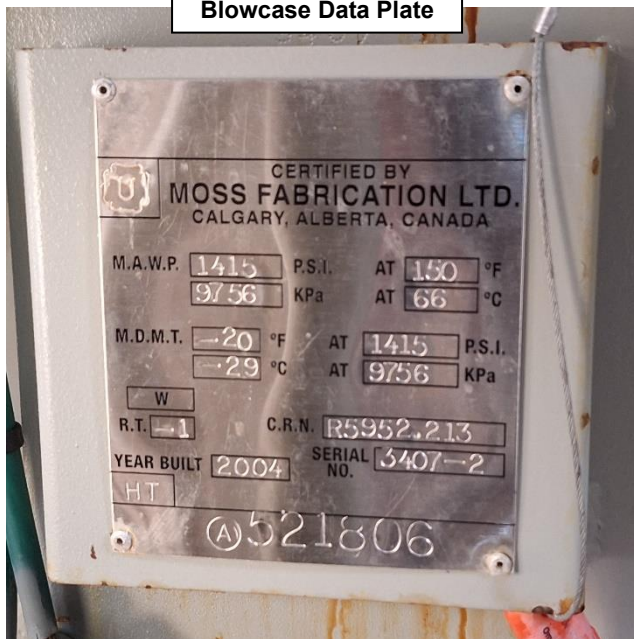


Visual Inspection Photos – Horizontal Blowcase (A0521806)

Blowcase Overview



Blowcase Data Plate



Blowcase Support

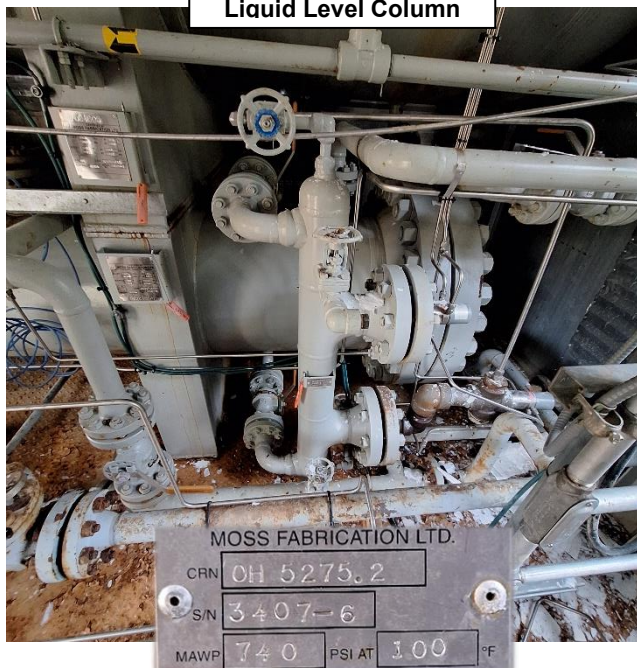


Top of Blowcase

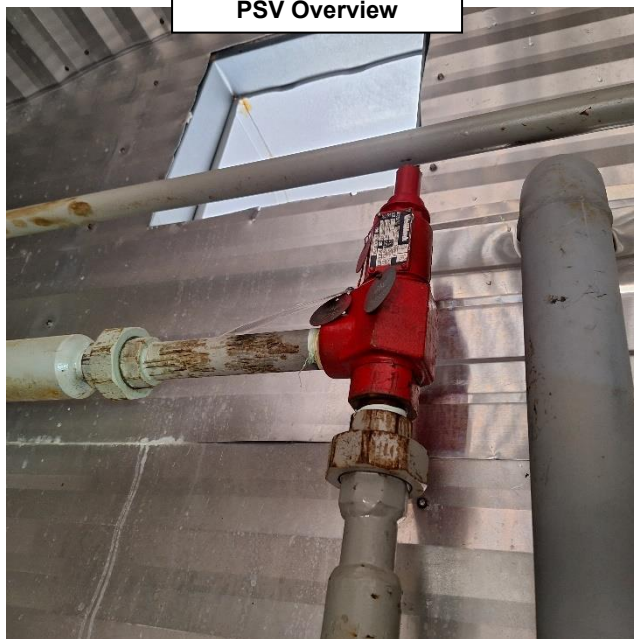


Visual Inspection Photos – Horizontal Blowcase (A0521806)

Liquid Level Column



PSV Overview



PSV Data Plate



PSV Service Tag

