

# Pressure Vessel Inspection Report - EXTERNAL

<b>PIM Sales Order #:</b>	<b>115- 02</b>	<b>Date:</b>	May 19 ,2022
<b>PIM Work Order #:</b>	<b>IS- 01</b>	<b>Sales # Desc.</b>	

<b>Client:</b>	Fuelled Inc c/o Imperial		
<b>Facility:</b>	La Corey Yard	<b>Vessel Name:</b>	Inlet Separator
<b>Location (LSD):</b>	La Corey, AB	<b>Equipment Number:</b>	V-5800
<b>Status:</b> Operating In-Service Inspected	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<b>Tag #:</b> Orientation: Horizontal
<b>Not Operating In-Service Inspected</b>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<b>Remains In-Service:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Type of Inspection:</b>	<input checked="" type="checkbox"/> Baseline	<input type="checkbox"/> Interval	<input type="checkbox"/> Repair/Alteration

## 1.0 NAMEPLATE DATA

<b>Jurisdictional Registration Number:</b>	A587074	<b>CRN:</b>	U7552.2
<b>Manufacturer:</b>	Pyramid Process Fabricators	<b>Year Built:</b>	2008
<b>Vessel Serial Number:</b>	08-3180-0000	<b>Size (diameter x length-estimate):</b>	78" x 20'
<b>Shell Thickness:</b>	0.750 "	<b>Shell material:</b>	SA-516-70N
<b>Head Thickness:</b>	0.6875 "	<b>Head material:</b>	SA-516-70N
<b>Tube Wall Thickness:</b>	n/a "	<b>Tube Material:</b>	n/a
<b>Tube diameter:</b>	n/a "	<b>Tube length:</b>	n/a
<b>Channel Thickness:</b>	n/a "	<b>Channel material:</b>	n/a
<b>Design Pressure:</b>	<b>Shell:</b> 273 psi	<b>Operating Pressure:</b>	<b>Shell:</b> 0 psi
<b>MAWP</b> psi	<b>Tubes:</b> n/a		<b>Tubes:</b> n/a
<b>Design Temperature:</b>	<b>Shell:</b> 140 °F	<b>Operating Temperature:</b>	<b>Shell:</b> 0 °F
<b>MDMT</b> -20 °F	<b>Tubes:</b> n/a		<b>Tubes:</b> n/a
<b>X-ray:</b>	Full	<b>Heat treatment:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Code Parameters:</b>	ASME, SEC VIII, DIV 1	<b>Code Case:</b>	n/a
		<b>Joint efficiency (if on nameplate):</b>	100%
<b>Corrosion Allowance:</b>	0.125"	<b>Manway:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 24"

## 2.0 PRESSURE SAFETY VALVE NAME PLATE DATA

Manufacturer / Model/ Serial # & Code Stamp	Size (Inlet x Outlet)	Set Pressure (psi)	Capacity (scfm)	CRN	Tag Number (s)	Set Date
Manufacturer/ Model: Serial #/ Code Stamp:						
<b>Location of PRV:</b>	<input type="checkbox"/> On Vessel	<input type="checkbox"/> In System	<input type="checkbox"/> Tube Side	<input type="checkbox"/> Open to Atmosphere	<input type="checkbox"/> Non Code	<input type="checkbox"/> Vent to Relief System
<b>Inlet Isolation Valve:</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<b>If Yes - Is there a procedure documented for control of lock out?</b>		<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>Are the Valves Locked Out?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	<b>Comments:</b>			
<b>Is PSV capacity verified to design condition?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	No PSV installed.			

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3.0 SERVICE CONDITIONS INDICATE ALL THAT APPLY					
<input type="checkbox"/> Sweet	<input type="checkbox"/> Sour	<input type="checkbox"/> Process Oil	<input type="checkbox"/> Gas	<input type="checkbox"/> Water	<input type="checkbox"/> Low Temp
<input type="checkbox"/> Amine	<input type="checkbox"/> LPG	<input type="checkbox"/> Condensate	<input type="checkbox"/> Air	<input type="checkbox"/> Glycol	<input type="checkbox"/> Thermal Fluid
<b>Other (Describe):</b>					
4.0 PIPING DATA					
<b>Primary Flange Rating:</b>			ASME B31.1 <input type="checkbox"/>	B31.3 <input checked="" type="checkbox"/>	B31.5 <input type="checkbox"/> Other Normal
<b>Piping Design Pressure:</b>			0 <input checked="" type="checkbox"/> psi <input type="checkbox"/> kpa	<b>Piping Operation Pressure:</b> 0 <input checked="" type="checkbox"/> psi <input type="checkbox"/> kpa	
<b>Nearest Vessel Design Pressure:</b>			0 <input checked="" type="checkbox"/> psi <input type="checkbox"/> kpa	<b>Diameters Welded:</b>	
<b>Comments:</b> No Piping Attached.			<b>Diameters Threaded:</b>		

Fill out all forms as completely as possible. All information is important!  
Use back of sheets to record additional information or sketch if required.

<b>G - Good</b>	<b>F - Fair</b>	<b>P = Poor</b>	<b>N/A = Not Applicable</b>
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External Inspection Items	G	F	P	N/A	COMMENTS
<b>NDE methods</b> UT/MPI report done on vessel Chief Inspection to review methods	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Left Head: Right Head: Shell: <b>See UT Report.</b>
<b>External Condition</b> Assess paint, record location, size and depth of corrosion or damage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Tell Tale Drilled <input checked="" type="checkbox"/> Not Tell Tale Drilled
<b>Nozzle</b> Assess and record paint look for leakage, and stud engagement and corrosion, verify / inspect gussets. Record any damage, deflection, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Leakage Record</b> Report leakage at flanges, threaded joints, weep holes on repads, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Saddle</b> Record corrosion, buckling, dents, etc. Look at vessel surface area near supports and attachment welds. Verify no signs of leakage at attachment to vessel and ground wire attached.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Anchor Bolts</b> Hammer tap to ensure secure. Record corrosion, cracking in threads or signs of deformation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Concrete Foundation</b> Record cracks, spalling, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Gauges</b> Verify gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>External Piping</b> Verify pipe is supported. (Clamps, supports, shoes, etc. in place). Record any structural overload, deflection, verify paint condition, external corrosion, studs and nuts, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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External Inspection Items	G	F	P	N/A	COMMENTS
<b>Valving</b> Verify/record visible leaks properly supported and CSO/CSC.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>PSV</b> Verify set is at or below vessel MAWP. Discharge piping is greater to or equal to valve outlet and is properly supported / routed. Verify PSV seals/ tags. Status of block valves, check car seal log.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>PSV</b> Verify properly installed and is supported adequately for the discharge loads.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Insulation/Cladding</b> Verify condition around appurtenances no damage present, and there is no ingress of moisture.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Ladder/Platform</b> Describe condition, supports Hazards and compliance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Recommendations or corrective actions:</b> Vessel is Fit for Service OR Describe Corrective Actions (Operations to, discuss with Chief Inspector where necessary, and get remedial action implemented)					
<b>Observations and Findings:</b>					
Vessel is as NEW condition, never used in service. Stored under nitrogen purge since new.					
Internal in good condition, slight surface rusting.					
<b>Recommendations:</b>					
<input type="checkbox"/> Replace PSV <input type="checkbox"/> Add PSV <input type="checkbox"/> Add Autodrain <input type="checkbox"/> Replace PI <input type="checkbox"/> Add PI <input type="checkbox"/> Other - Specify					
<b>Summary:</b>					
Vessel certified to -20°, do not use in cold or environment, unless insulated.					
<b>Inspection Interval</b> _____ 0 _____ # years <b>PSV Service Interval</b> _____ 0 _____ # years (Determined by Chief Inspection guidelines of Peregrine Integrity Management Owner-User Inspection Program)					
<b>Vessel Scrapped - All three conditions below must be satisfied</b>					
Vessel has been removed from service and there is no intention to return it to pressure service.					
The nameplate has been removed and all other identification has been removed.					
The vessel is in a condition that it cannot be pressurized.                      i.e. A hole has been cut in the vessel, or a nozzle has been removed, or a head has been cut off.					
<input type="checkbox"/> Yes <input type="checkbox"/> No    Date: _____ (yyyy-mm-dd)					
<b>Vessel sold and transferred the registration of the vessel to:</b>					
TO: _____ Date: _____ (yyyy-mm-dd)					

<b>Inspected By:</b>	<u>Helder Carreiro</u>	<b>Date:</b>	<u>2022-05-19</u> yyyy-mm-dd
<b>Verified By</b>			
<b>Chief Inspector:</b>	<u>Paul Frederick</u>	<b>Date:</b>	<u>2022-05-25</u> yyyy-mm-dd



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## ACTION ITEMS LIST

Action Item	Responsible Party	Date Resolved

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## Equipment Photos



Photo 1 Description: Overall



Photo 2 Description: Saddle



Photo 3 Description: 2 nameplates, 1 metric and 1 SAE



Photo 4 Description: Nameplate



Photo 5 Description: Manway cover



Photo 6 Description: Overall

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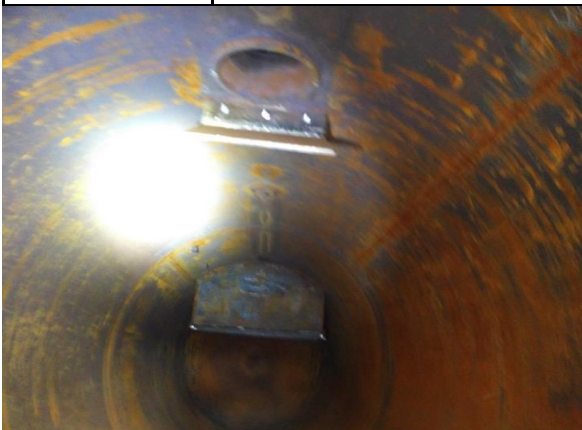
**Equipment Photos**



**Photo 7 Description:** Manway split repad stamping



**Photo 8 Description:** Manway blind slight surface rust



**Photo 9 Description:** Internal inspection, slight surface rust



**Photo 10 Description:** Internal inspection, slight surface rust



**Photo 11 Description:** Internal inspection, slight surface rust



**Photo 12 Description:** Internal inspection, slight surface rust

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## Equipment Photos



Photo 13 Description: Split repad on manway weep hole still grease



Photo 14 Description: Split repad on nozzle weep hole still grease



Photo 15 Description: Saddle weep hole still with grease



Photo 16 Description: Saddle weep hole still with grease



Photo 17 Description: Overall Rust free



Photo 18 Description: Anchor bolt holes