

Pressure Vessel Static Information

Insp. Comp: Summit Inspection Services Ltd	District: Slave Lake	Field: BRINTNELL 1362
Location: 12-09-081-22W4 BR BATTERY	Unit/Skid:	LSD: 12-09-081-22W4
Jurisdiction #: A0218208	Alt. Jur #:	Equip Tag #:
Serial #: 26978A	CRN #: C4936.23	Year Built: 1985
Manufacturer: Western Rock Bit Co. Ltd.		Equipment Description: LPG STORAGE BULLET
Status: In Service -	Equip Type: Bullet	Service: Sweet
Shell MAWP: 1723.70 kPa @ 65.5600 C	Volume: bbl	Code Stamp: ☒ Yes ☐ No
Tube MAWP: kPa @ C	Length: 16.66 m	Insulated: ☒ Yes ☐ No
Shell MDMT: -20.0000 C RT: RT2	Diameter: 2.74 m OD	PWHT: ☐ Yes ☒ No
Tube MDMT: C Support: Saddle		Manway: ☒ Yes ☐ No
Shell C.A.: 0.00 C Shell JE: 1.00	Coated: ☐ Yes ☒ No	Clad: ☐ Yes ☒ No
Tube C.A.: mm Tube JE:	Remote Access: ☐ Yes ☒ No	
Dim Text:		
Data: Updated		

Corrosion Monitoring Location (CML) Static Information

Side	TML #	Test PT Name	Material	Nom Thick	Diameter	CORR Allow
S	4000	Bottom North Head	SA-516-70	19.61 mm	2743 mm OD	0
S	4005	Top Shell (north of center)	SA-516-70	19.76 mm	2743 mm OD	0
S	4010	Middle West Shell (north of center)	SA-516-70	19.76 mm	2743 mm OD	0
S	4015	Bottom Shell (north end)	SA-516-70	19.76 mm	2743 mm OD	0
S	4020	Bottom South Head	SA-516-70	19.76 mm	2743 mm OD	0
S	4025	Bottom Shell (south end)	SA-516-70	19.76 mm	2743 mm OD	0
S	4030	Bottom South Head	SA-516-70	19.61 mm	2743 mm OD	0
S	4040	4" Inlet Elbow	SA-234-WPB	6.02 mm	114.3 mm OD	1.6 mm
S	4050	2" Inlet Elbow	SA-234-WPB	5.54 mm	60.32 mm OD	1.6 mm
S	4060	3" Outlet Elbow	SA-234-WPB	5.49 mm	88.9 mm OD	1.6 mm
S	4070	2" PSV Elbow	SA-234-WPB	5.54 mm	60.32 mm OD	1.6 mm

Comment:

PSV Static Data

Tag #: PSV-6330		Serial #: 561718-1-A10		CRN: 0G8442.5C	
Model No: 26LA10-120/S7-1362228-2		Capacity: 409		Set Pressure: 250 psi	
Manufacturer: Farris Engineering		Location of PSV: On Vessel		Last Service Date:	
Inlet Size: 3.00 in	Inlet Carseal: ☒ Yes ☐ No	Conn. Type: Flanged	Inlet Block: ☒ Yes ☐ No		
Outlet Size: 4.00 in	Outlet Carseal: ☐ Yes ☒ No	Code Stamp:	Outlet Block: ☐ Yes ☒ No		
Service Comp:	Out For Service: ☐ Yes ☒ No	PSV Side: SHELL			
Comment: Meets code requirements, Last PSV service date is June 2010.					

External Inspection Results - VE

External Inspection Complete: 2014-08-18

Item	N/A	Condition	Comment	NCR	Action Item Integrity	Action Item Maintenance
Nameplate	☐	Accept	A# could not be confirmed., covered by insulation.	☐	☐	☐
Foundation & Supports	☐	Accept		☐	☐	☐
Anchor Bolts	☒			☐	☐	☐
Grounding	☐	Accept		☐	☐	☐
Insulation Condition	☐	Accept		☐	☐	☐
PSV	☐	Reject	No code stamp.	☒	☒	☒
Shell Heads & Nozzles	☐	Accept		☐	☐	☐
Metal Surfaces (Paint)	☒			☐	☐	☐
Aux. Equipment	☐	Accept		☐	☐	☐
Cathodic Protection	☒			☐	☐	☐
Alignment	☐	Accept		☐	☐	☐
Flange Connections	☐	Accept		☐	☐	☐
Pressure Gauge	☐	Accept		☐	☐	☐
Temperature Gauge	☐	Accept		☐	☐	☐
Sight Glass	☒			☐	☐	☐
Ladder / Platform	☐	Accept		☐	☐	☐
Leak	☐	No		☐	☐	☐
Piping From Vessel	☐	Accept		☐	☐	☐
Previous UT Survey	☐	Pick	Survey Date:	UT Company:		

External Visual Observations

Recommendations

NDE and Final Summary

NDE	UT	☒	Report #:	UT(SW)	☐	Report #:
Performed:	MT	☐	Report #:	PT	☐	Report #:
	Other	☐	Report #:			
Drawing Found?		☐				

Observations Summary

The A# is not visible, most likely covered by insulation.
 No ASME code stamp found on the PSV nameplate.
 UT corrosion survey was performed on the vessel and associated piping. Please see attached copy of report for inspection details.

Recommendations Summary

Contact the PSV manufacturer to confirm ASME code stamp. Expose the A#.

Actions Corrected at Time of Inspection

Additional Visual Observations

Any other safety concerns or observations from associated equipment

Thickness and Remaining Life Evaluation

MUST BE COMPLETED AND RESOLVED WITH CNRL IMMEDIATELY UPON DISCOVERY OF LOW WALL THICKNESS AREAS

Was any thickness measurement location (Nominal WT - Corrosion Allowance)? No

Report #:

Which component(s) were found below (Nominal WT - Corrosion Allowance)?

Components below (Nom - CA)			Components below (Nom - CA)
	-		
	-		
	-		
	-		
	-		

Component Worksheet:

Component	Low Reading	Calculated T-Min	Reading Below T-Min	Nature Of Pitting	Remaining Life

Notes:

Contact CNRL Integrity Coordinator to discuss above results.

Name Of CNRL Contact:

Date and Time Of Conversation:

Summary/Results Of Conversation:

Crack Evaluation by Magnetic Particle or Alternative Inspection

MUST BE COMPLETED AND RESOLVED WITH CNRL IMMEDIATELY UPON DISCOVERY OF CRACK-LIKE INDICATIONS

Were any indications found to suggest the vessel contained cracks? : No

Report #:

Name Of CNRL Contact:

Date and Time Of Conversation:

Summary/Results Of Conversation:

CNRL Criticality Evaluation

	YES	NO
1. Is the vessel fit-for-service? :	☒	☐
2. Was the measured thickness less than the calculated minimum required thickness (T-Min) of any component?:	☐	☒
3. Were MT indications found?:	☐	☒
4. Was the remaining life less than 6 yrs for sour service vessels or less than 10 yrs for sweet service vessels?:	☐	☒
5. Were NCR's or Action Items generated as a result of the inspection?:	☒	☐
6. Were UT readings below (Nominal WT - Corrosion Allowance) found?:	☐	☒

Information on CNRL Owner User Program - Criticality Designation and Required Review

RED - Vessel Inspection Results are deemed RED if one of the following occurred:

- * The measured thickness was less than the calculated minimum required thickness (T-Min) for any component
- * MT Indications were found
- * The remaining life was calculated to be less than 6 years for sour-service or less than 10 years for sweet-service vessels

RED inspection reports must be signed off by the CNRL Chief Inspector.

YELLOW - Vessel Inspection Results are deemed YELLOW if one or more of the following occurred:

- * The vessel was declared NOT fit-for-service by the 3rd Party In-Service PV Inspector
- * NCR's or Action Items were generated as a result of the inspection.
- * UT Readings below (Nominal WT - Corrosion Allowance) were found.

YELLOW inspection reports must be signed off by the CNRL Pressure Equipment Integrity Coordinator

GREEN - Vessel Inspection Results are deemed GREEN if all of the following are true:

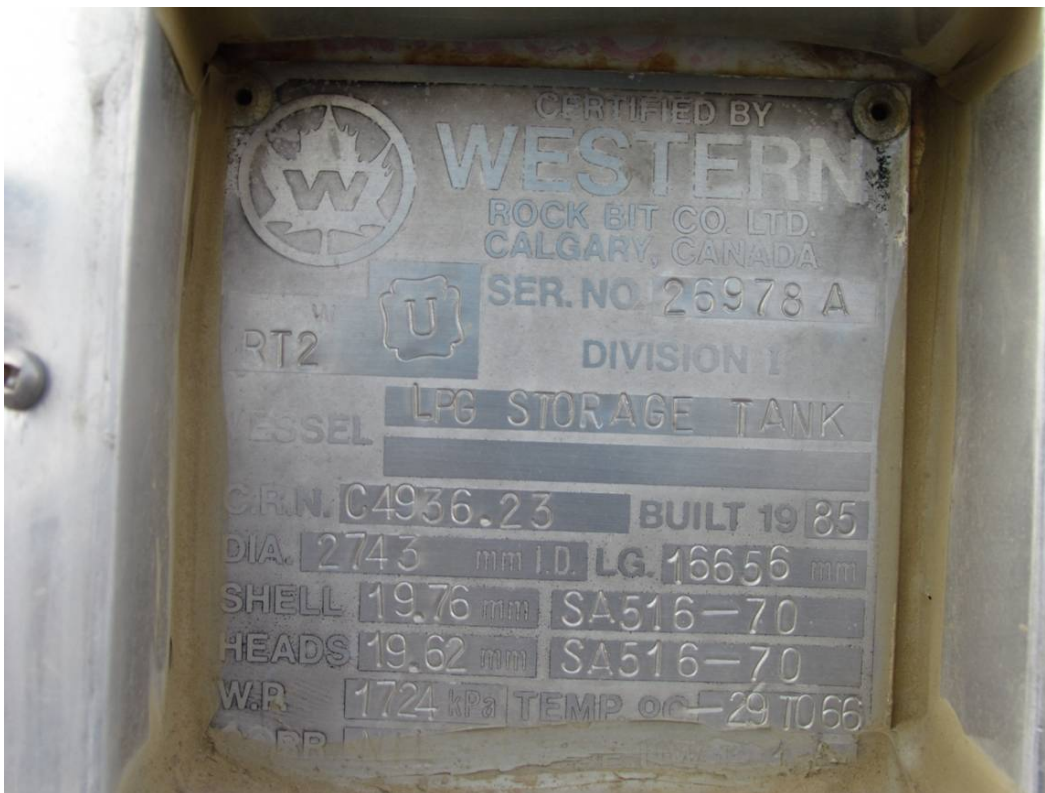
- * The vessel was declared fit-for-service by the 3rd Party In-Service PV Inspector.
- * UT Readings below (Nominal WT - Corrosion Allowance) were NOT found.
- * MT indications were NOT found.
- * NCR's or Action Items were NOT generated as a result of the VE inspection.

GREEN Inspection reports must be signed off by the 3rd Party In-Service Pressure Vessel Inspector.

Criticality Designation

Inspection Photographs and Relevant Files

Title:



Description: Vessel nameplate

Inspection Photographs and Relevant Files

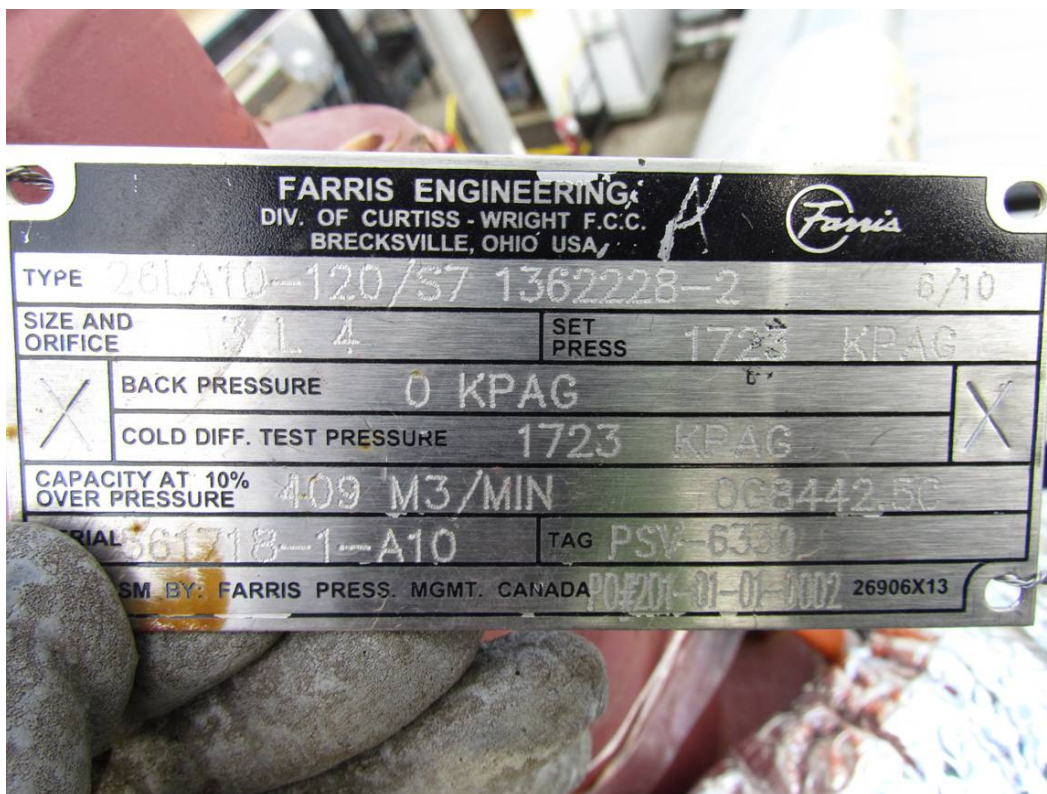
Title:



Description: General view of vessel

Inspection Photographs and Relevant Files

Title:



Description: PSV nameplate

Inspection Photographs and Relevant Files

Title:



Description: General view of PSV

Job Information

Vehicle #:	KMs:	Inspector (name): Maria Savulescu	
Time In:	Time Out:	Hrs:	PESL #: 000162 API: 24958
Time In:	Time Out:	Hrs:	Inspector (signature): 
Personnel 1: Nyssa Moore		CNRL Coordinator (name) :	
Personnel 2: Tyler Cameron		CNRL Coordinator (signature): 	
Billing Info:	-	CNRL Chief Inspector (signature):	
Report ID: CNR-PVI-14-00014-32		Inspector Job Number:	