

### PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD 7-27-51-19W5	Date 06-11-2019	SAP Equipment ID 66153662
		Report # A595428 – 2019 – VE - 08

VESSEL STATIC DATA									
Plant				Op Unit			System		
Prov. Insp. # 595428 NB#				CRN U9060.2			Equip Tag #		
Equipment Description Glycol Surge Drum							Serial # 08-031GSV		
Manufacturer KOOTENY							Vessel Class		
Internal Access YES NO Description				Year Built 2008					
MAWP		kPa / PSI		@		°C / °F		MDMT °C / °F	
CODE UM U U2		RT 1 2 3 4		PWHT					
Diameter		Length (T/T)		mm/in		OAL		mm / in	
Shell Mat'l		Thickness		mm / in		Corr Allowance		mm / in	
Head Mat'l		Thickness		mm / in		Corr Allowance		mm / in	
Nozzle Mat'l		Thickness		mm / in		Corr Allowance		mm / in	
Internal Coating: YES NO				Internal Clad YES NO				Capacity m <sup>3</sup>	
Manway YES NO				Inspection Port YES NO				Skirt Legs Saddle	
Nozzle Rating		lb ANSI		Painted YES NO		Insulated YES NO			
PROCESS DATA									
Product Description						Sweet Sour			
Operating Pressure				kPa / psi		Operating Temperature °C / °F			
PROTECTED BY PRD or OPPSD									
PRD STATIC DATA									
Serial No.	Location	Set Pressure	Capacity SCFM / Lbs/Hr / GPM	Manufacturer	Model / Type	Last Service Date & Company			
N/A SEE COMMENTARY									
PRD DETAILS									
	Type (Thread/Flange)			ANSI Rating			Size (mm)		
PRD Inlet									
PRD Outlet									

#### INSPECTION SUMMARY

VESSEL WAS INSPECTED ON JUNE 11 2019  
 NO ACCESS TO PSV  
 ALL PIPING APPEAR TO BE IN ACCEPTABLE CONDITION  
 CLADDING PENETRATIONS AND SEAL FAILURES THROUGHOUT AROUND NOZZLES ATTACHMENTS  
 DATA PLATE IS SECURE AND LEGIBLE  
 MOUNTED ON SADDLE  
 GROUNDED TO SADDLE  
 MINOR OXIDIZATION ON FASTENERS, SBP, VALVES AND FLANGES  
 VESSEL IS FFS

#### RECOMMENDATIONS

CONSIDER RE-SEALING THE OPEN CLADDED JOINTS TO MITIGATE THE POTENTIAL OF CUI

#### NONCONFORMANCES / INSPECTION DEFICIENCIES

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Inspection Strategy	Availability	Inspection Interval
Inspection Date	Date of Last Inspect	Date of Next Inspect

**REPORT CERTIFICATION**

The signatures below certify that inspections/tests have been completed in accordance with the identified inspection strategy and that the specified equipment is considered fit for service until the date of next inspection.

Inspected by	JERRAD MOROSOFF		Date	6-11-2019
Company	STREAMLINE INSPECTION	PESL #	404	API # 32933
Reviewed and Approved by			Date	
		PESL #		API #
Criticality Assessment Rerun		Inspection Planning Rerun		
Optional Rule Group Confirmed		Assessed Next Inspection Date		

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#### DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	ACCEPTABLE			
V2	General Corrosion	N/A			
V3	General Leaks	ACCEPTABLE			NO LEAKS NOTED AT TIME OF INSPECTION
V4	Vibration	N/A			
V5	Dissimilar Flange Rating	N/A			
V6	Ladder/Stairway/ <u>Platforms</u>	N/A			
V7	Heads	ACCEPTABLE			
V8	Guy Wires	N/A			
V9	Electrical Ground	ACCEPTABLE			GROUNDING TO SADDLE
V10	Painted Inactive Corrosion	ACCEPTABLE			LIMITED AS MAJORITY OF VESSEL IS CLADDED
V11	Coating/Painting	ACCEPTABLE			LIMITED AS MAJORITY OF VESSEL IS CLADDED
V12	Expansion Joint or Bellows	N/A			
V13	Gauge/Site Glass	N/A			
V14	Shell	ACCEPTABLE			LIMITED DUE TO BEING CLADDED
V15	Jacket	N/A			
V21	Support Other (Please explain)				
V22	Foundation	ACCEPTABLE			PILINGS
V23	Anchor Bolts	ACCEPTABLE			SADDLE
V24	Saddle/Skirt	SADDLE			ACCEPTABLE
V25	Davit	ACCEPTABLE			SIDE ENTRY MANWAY
V26	Fireproofing	N/A			
V31	Connections Other (Please explain)				
V32	Small Branches	ACCEPTABLE			MINOR OXIDIZATION NOTED
V33	Nozzles	ACCEPTABLE			LIMITED DUE TO BEING CLADDED
V34	Manways	ACCEPTABLE			ACCEPTABLE
V35	Reinforcing Pads	N/A			
V36	Inadequate Thread Engagement	N/A			
V37	Bolting	ACCEPTABLE			MINOR OXIDIZATION
V38	Flanges	ACCEPTABLE			ON ASSOCIATED PIPING
V39	Leak Clamps	N/A			
V41	Insulation Other (Please explain)				
V42	Damage	FAIR TO POOR			DAMAGED SEALS AROUND THE NOZZLE ATTACHMENTS
V43	Penetrations	ACCEPTABLE			THROUGHOUT VESSEL SHELL AND PIPING
V44	Insulation Jacket	FAIR TO POOR			DAMAGED SEALS AROUND THE NOZZLE ATTACHMENTS
V45	Banding	ACCEPTABLE			ALL INTACT
V46	Seals/Joints	FAIR TO POOR			DAMAGED SEALS AROUND THE NOZZLE ATTACHMENTS
V51	Relief Devices Other (Please explain)	N/A			NOT ACCESSIBLE AT TIME OF INSPECTION
V52	Corrosion	N/A			
V53	Leaks	N/A			
V54	Restricted Inlet/Outlet	N/A			
V55	Manual Operation Lever	N/A			

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**PHOTOS**





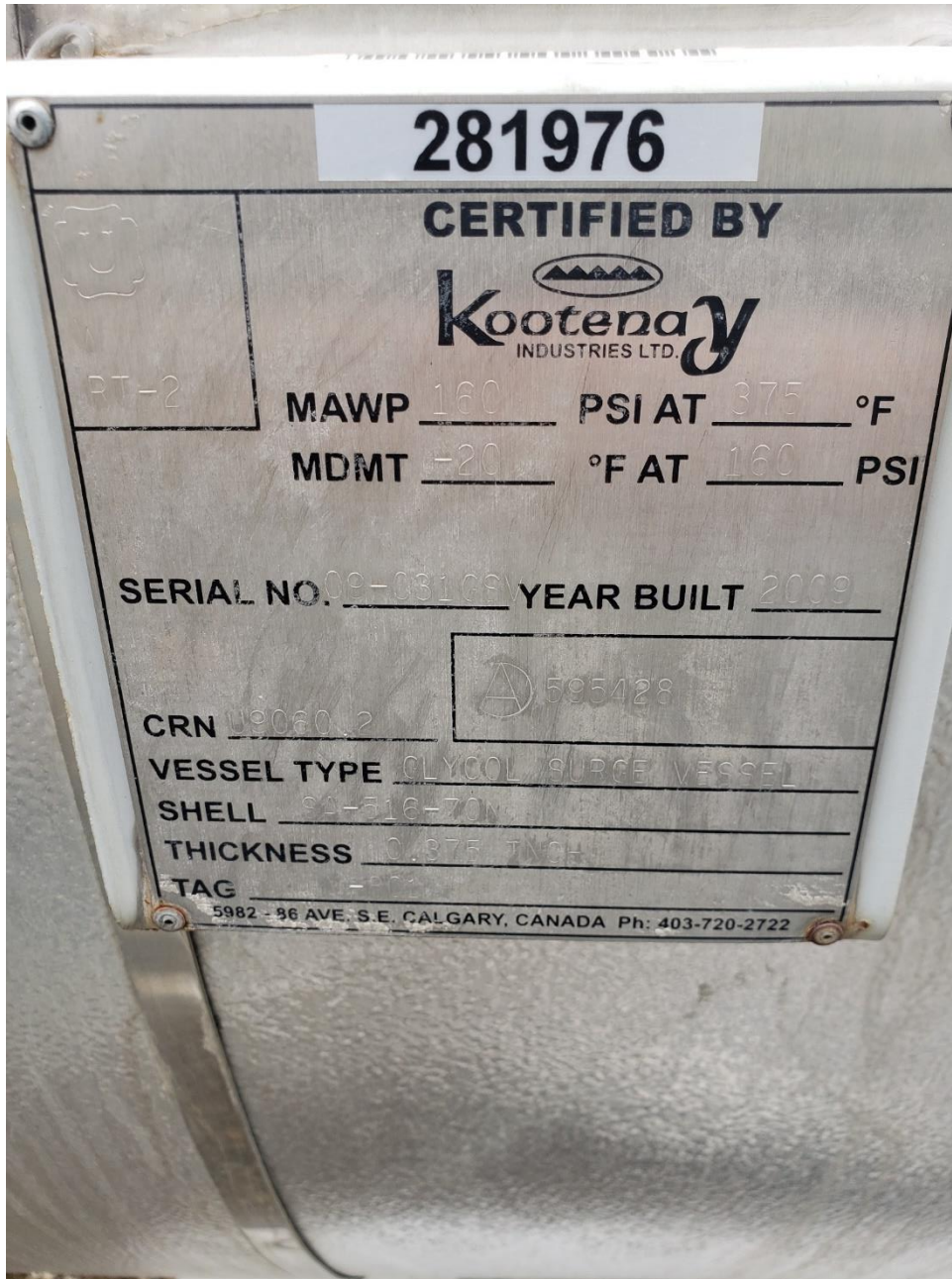
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281976

CERTIFIED BY

  
Kootenay  
INDUSTRIES LTD.

PT-2

MAWP 160 PSI AT 375 °F

MDMT -20 °F AT 160 PSI

SERIAL NO. 09-03169 YEAR BUILT 2009

CRN U9060.2

VESSEL TYPE GLYCOL SURGE VESSEL

SHELL 90-516-70N

THICKNESS 0.975 INCH

TAG

5982 - 96 AVE. S.E. CALGARY, CANADA Ph: 403-720-2722

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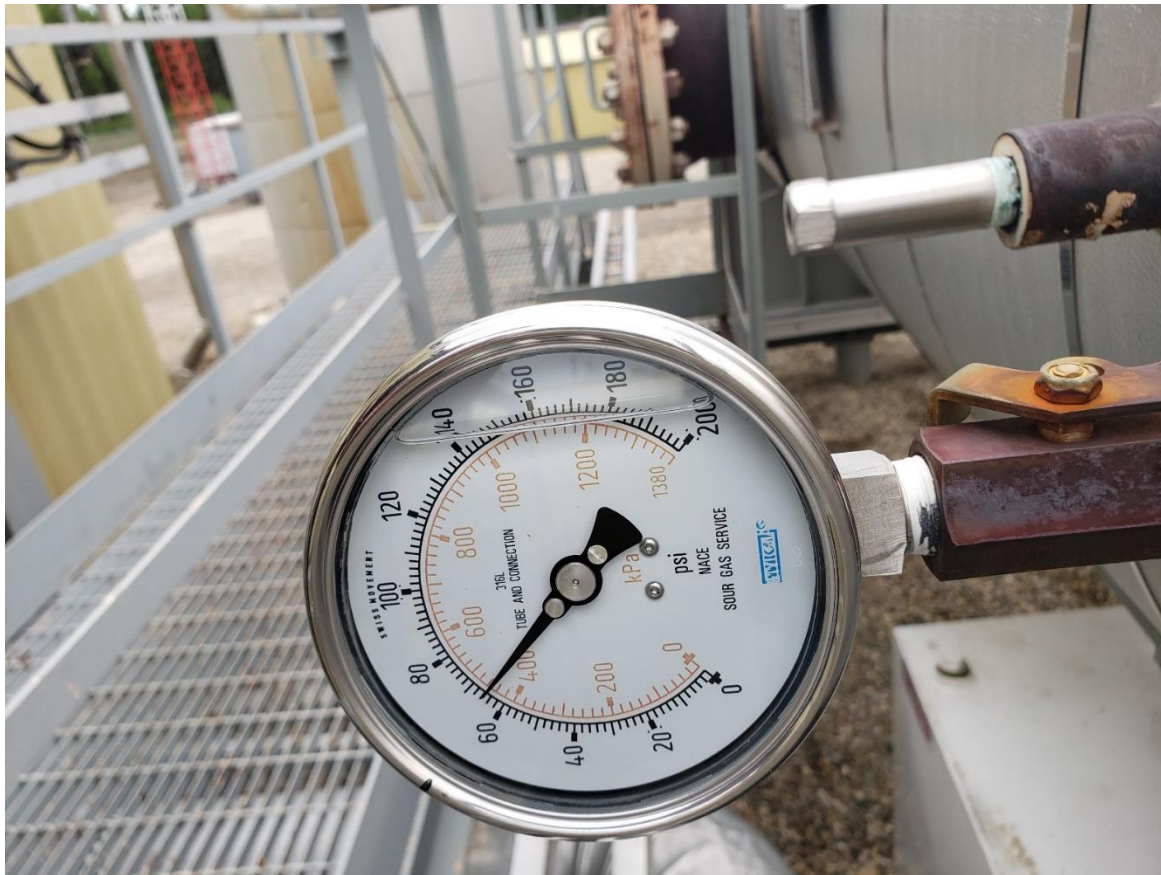
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