

# PRESSURE VESSEL & COLUMN INSPECTION REPORT

**LSD:** 02-03-052-04W4      **Date:** 2014-02-06      **SAP Equipment ID** 62049661

VESSEL STATIC DATA										
Plant: Morgan			OP Unit:				System:			
Prov. Insp . #: 0487191			CRN: P-4208.213				Equip Tag#: 62049661			
Equipment Description: GLYCOL CONTACTOR						Serial #: 2001665601				
Manufacturer: Alco							Vessel Class: vessel			
Internal Access: No			Description:				Year Built: 2002			
MAWP: 9929 kpa			At Temp 54 C				MDMT: -20 C			
Code: U			RT: None				PWHT: No			
Diameter: 508 mm			Length: 9144 mm		(T/T): mm		OAL: mm		Orientation: Vertical	
HEAD		Mat'l: SA-516 70		Thickness: ± 20.7 mm				Corr Allowance: ± 1.6 mm		
SHELL		Mat'l: SA-516 70		Thickness: ± 22.2 mm				Corr Allowance: ± 1.6 mm		
Nozzle		Mat'l:		Thickness:				Corr Allowance:		
Internal Coating: No			Internal Clad: No				Capacity: m3			
Manway: No			Inspection Port: Yes				Skirt X Legs Saddle			
Nozzle Rating: lb ANSI			Painted: Yes				Insulated: Yes			

PROCESS DATA									
<b>Production Description:</b>	Sweet				<b>Sour:</b>				
<b>Operating Pressure</b>	kpa				<b>Operating Temp:</b>	C			

PSV STATIC DATA										
Tag #	Serial No.	Location	Size(mm)		Set Press (kPa)	Capacity Imperial (SCFM)	Manufacturer	Model	Last Service	Service Company
			Inlet	Outlet						
	25415		38.10	0.00	9929	11527	Mercer	134251T27G2	2011/06/01	POWELL CANADA

PSV DETAILS									
	Type(Thread/Flange)				ANSI Rating			Size(In/mm)	
<b>PRD Inlet</b>	Threaded							38.10	
<b>PRD Outlet</b>	Threaded							0.00	

NDE Equipment Records					
Procedure #	Description	Manufacturer	Model#	Serial#	Due Date
**** See Associated NDE Report					

## INSPECTION SUMMARY

VESSEL IS FIT FOR SERVICE.

## RECOMMENDATIONS

VESSEL IS FIT FOR SERVICE.

## NONCONFORMANCES/INSPECTION DEFICIENCIES



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### INSPECTION PLANNING

Inspection Strategy	_____	Availability	_____	Inspection Interval	_____
Inspection Date	2014/02/06	Date of Last Inspect	_____	Date of Next Insp	2018/02/06

### 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	Jamey Tanasichuk		Cert #	000411	Date	2014/02/06
Reviewed and Approved by	_____	_____			Date	_____
Criticality Assessment Rerun	_____	Inspection Planning Rerun				
Assessed Next Inspection Date	2019	_____				

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### DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	Accept		No	GOOD OVERALL EXTERNAL CONDITION. NO DAMAGE OR EXTERNAL CORROSION. PAINT IN GOOD CONDITION.
V2	General Corrosion	Accept		No	NO EXTERNAL CORROSION.
V3	General Leaks	Accept		No	NO VISIBLE LEAKAGES NOTED.
V4	Vibration	N/A		No	
V5	Dissimilar Flange Rating	N/A		No	
V6	Ladder/Stairway	N/A		No	
V7	Heads	Accept		No	GOOD CONDITION.
V8	Guy Wires	N/A		No	
V9	Electrical Ground	N/A		No	
V10	Painted Inactive Corrosion	N/A		No	
V11	Coating/Painting	Accept		No	PAINT IN GOOD CONDITION. NO PAINT PEELING.
V12	Expansion Joint or Bellows	N/A		No	
V13	Gauge/Site Glass	Accept		No	GAUGES ARE VISIBLE AND IN GOOD WORKING CONDITION. NO SIGNS OF LEAKAGES OR CONTAMINATION.
V14	Shell	Accept		No	GOOD CONDITION.
V15	Jacket	N/A		No	
V21	Support Other (Please explain)	N/A		No	
V22	Foundation	N/A		No	
V23	Anchor Bolts	Accept		No	VESSEL IS BOLTED TO FLOOR. VESSEL IS SECURE. NO SHORT BOLTING.
V24	Saddle/Skirt	Accept		No	SADDLE IN GOOD CONDITION. VESSEL IS BOLTED TO FLOOR.
V25	Davit	N/A		No	
V26	Fireproofing	N/A		No	
V31	Connections Other (Please explain)	N/A		No	
V32	Small Branches	Accept		No	NO VISIBLE LEAKAGES/WEEPS NOTED.
V33	Nozzles	Accept		No	NO VISIBLE LEAKAGES NOTED.
V34	Manways	N/A		No	
V35	Reinforcing Pads	N/A		No	
V36	Inadequate Thread Engagement	N/A		No	
V37	Bolting	Accept		No	NO SHORT BOLTING. FLANGES PROPERLY ALIGNED.
V38	Flanges	Accept		No	FLANGES PROPERLY ALIGNED. NO SHORT BOLTING NOTED.
V39	Leak Clamps	N/A		No	
V41	Insulation Other (Please explain)	Accept		No	VESSEL SHELL/HEAD ARE EXTERNALLY WRAP INSULATED OUTSIDE OF ATTACHED BUILDING. INSULATION IN GOOD CONDITION.
V42	Damage	N/A		No	
V43	Penetrations	N/A		No	
V44	Insulation Jacket	N/A		No	
V45	Banding	N/A		No	
V46	Seals/Joints	Accept		No	NO VISIBLE LEAKAGES NOTED.
V51	Relief Devices Other (Please explain)	Accept		No	PSV.
V52	Corrosion	Accept		No	NO EXTERNAL CORROSION.
V53	Leaks	Accept		No	NO VISIBLE LEAKAGES NOTED.

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V54	Restricted Inlet/Outlet	N/A		No	
V55	Manual Operation Lever	N/A		No	

### DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

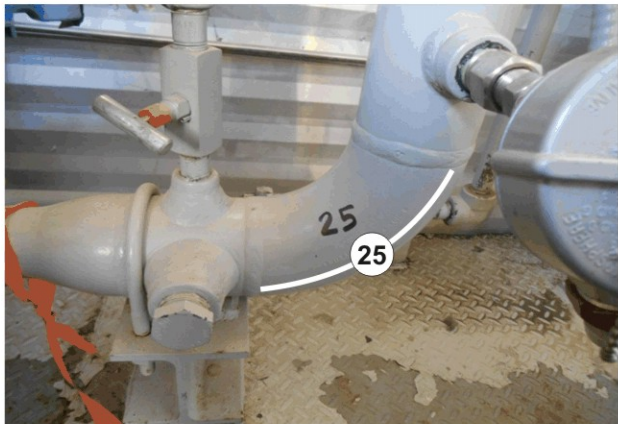
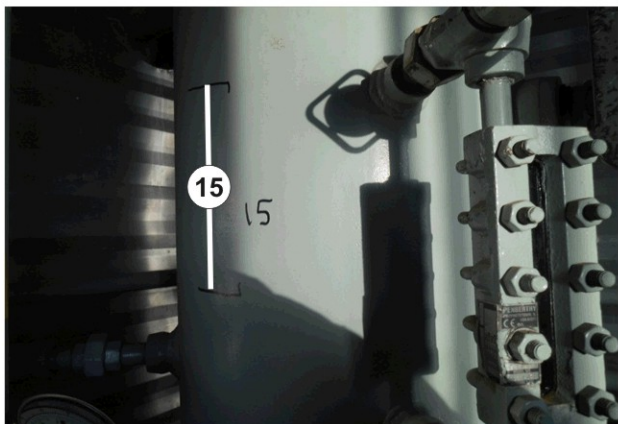
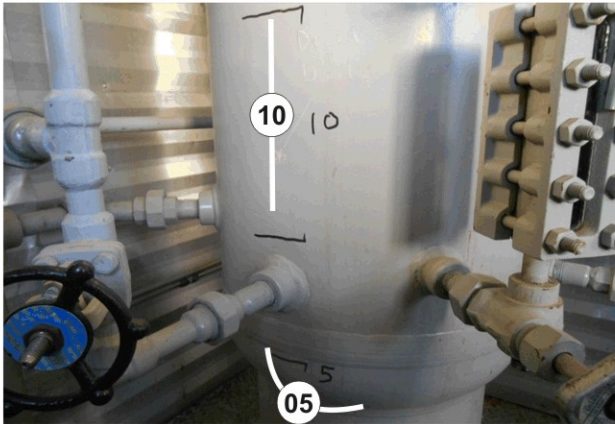
### DETAILED INSPECTION UT THICKNESS

CML	Nom. Thickness	CURRENT READINGS	short term corr rate	long term corr rate	remaining life	Survey Date	Comments
05 (HEAD)	20.73	22.17	0.0000	0.0000	198.0	2014/02/06	Acceptable
10 (SHELL)	22.23	22.23	0.0000	0.0000	198.0	2014/02/06	Acceptable
15 (SHELL)	22.23	22.25	0.0000	0.0000	198.0	2014/02/06	Acceptable
20 (SHELL)	22.23	22.28	0.0000	0.0000	198.0	2014/02/06	Acceptable
25 (90L 3 STD)	5.49	5.11	0.0012	0.0012	60.8	2014/02/06	within Manufacturers tolerance

Inspected By	Signature	CGSB Level	CGSB	Survey Date	UT Equip	Due Date OF Calibration
Jamey Tanasichuk		1	11444	02/06/2014	109_81583903_EPOCH 4	06/17/2014

EXAMINATION ILLUSTRATION

DISTRICT:	ALBERTA NORTH	FACILITY:	MORGAN	LOCATION/LSD:	02-03-052-04W4
EQUIP NAME:	GLYCOL CONTACTOR			PROV REG No.:	A#0487191
SERIAL No.:	2001665601	Equip No.:	62049661	National Board No.:	

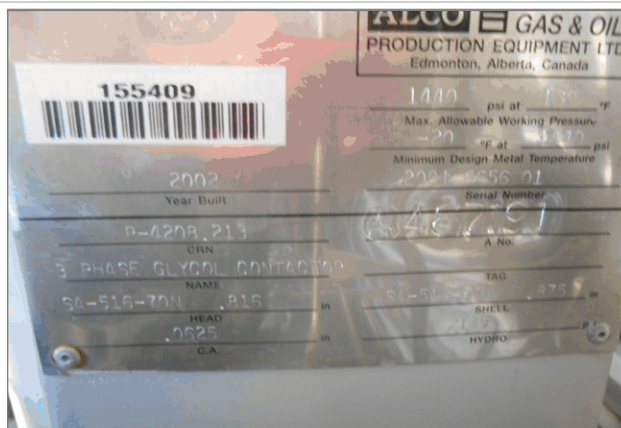


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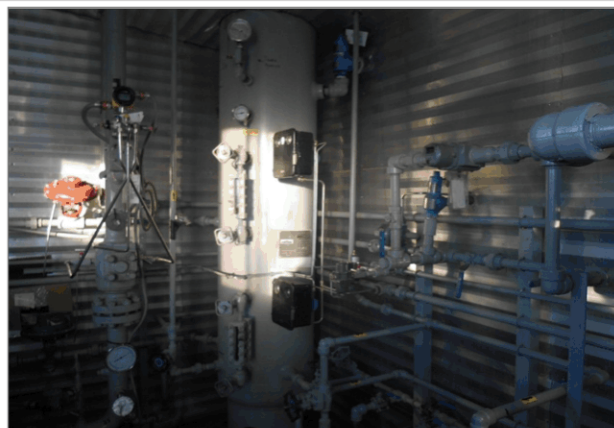


## PHOTOGRAPHS

DISTRICT:	ALBERTA NORTH	FACILITY:	MORGAN	LOCATION/LSID:	02-03-052-04W4
EQUIP NAME:	GLYCOL CONTACTOR			PROV REG No.:	A#0487191
SERIAL No.:	2001665601	Equip No.:	62049661	National Board No.:	



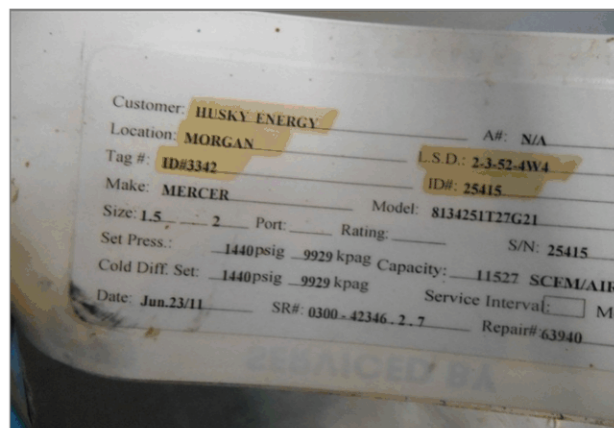
NAMEPLATE



OVERALL



PSV



PSV TAG



LSID



NOTES: