

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 03-31-050-25W3 Date: 2017-02-09 SAP Equipment ID 62019972

VESSEL STATIC DATA												
Plant: Tangleflags South					OP Unit:			System:				
Prov. Insp . #:		3102871		NB#:		N/S		CRN:		M-5722.23		
Equipment Description: GLYCOL CONTACTOR					Serial #:			94210-AA				
Manufacturer: Propak Systems Ltd.					Vessel Class:			vessel				
Internal Access:		No		Description:			Year Built:			1995		
MAWP:		9032 kpa		At Temp			66 C			MDMT:		
Code:		UW11A5B		RT:			RT2			PWHT:		
Diameter:		356 mm		Length:		9144 mm		(T/T):		mm		
OAL:		mm		Orientation:			Vertical					
SHELL		Mat'l:		Unknown		Thickness:		17.45 mm		Corr Allowance:		
HEAD		Mat'l:		Unknown		Thickness:		14.27 mm		Corr Allowance:		
Nozzle		Mat'l:				Thickness:				Corr Allowance:		
Internal Coating:					Internal Clad:			Capacity:				
Manway:					No			Inspection Port:			Yes	
Nozzle Rating:					600 lb ANSI			Painted:			Yes	
Insulated:					Yes							
PROCESS DATA												
Production Description:					Sweet			Sour:				
Operating Pressure					kpa			Operating Temp:			C	
Status:					Operating							
PSV STATIC DATA 62049000												
Tag #	Serial No.	Location	Size(mm)		Set Press (kPa)	Capacity Imperial (SCFM)	Manufacturer	Model	Last Service	Service Company		
			Inlet	Outlet								
89652	94C0838	Shell	19.05	25.40	9032	2421	CONSOLIDATED	1990C	2015/10/28	GUEST		
PSV DETAILS												
		Type(Thread/Flange)			ANSI Rating			Size(In/mm)				
PRD Inlet		Threaded			N/A			19.05				
PRD Outlet		Threaded			N/A			25.40				
NDE Equipment Records												
Procedure #		Description		Manufacturer		Model#		Serial#		Due Date		
**** See Associated NDE Report												

INSPECTION SUMMARY

VESSEL IS FIT FOR SERVICE.

RECOMMENDATIONS

NONCONFORMANCES/INSPECTION DEFICIENCIES



PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 03-31-050-25W3**Date:** 2017-02-09**SAP Equipment ID**


62019972

INSPECTION PLANNING

Inspection Strategy		Availability		Inspection Interval	5 year
Inspection Date	2017/02/09	Date of Last Inspect		Date of Next Insp	2022/02/09

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	Justin Orichowski		AB Cert #	000758	SK PEI #	214	Date	2017/02/09
Reviewed and Approved by							Date	
Criticality Assessment Rerun			Inspection Planning Rerun					
Assessed Next Inspection Date	2022/02							

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 03-31-050-25W3

Date: 2017-02-09

SAP Equipment ID

62019972

DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	Accept		No	GOOD OVERALL CONDITION.
V2	General Corrosion	Accept		No	NO CORROSION OBSERVED.
V3	General Leaks	Accept		No	NO LEAKS OBSERVED.
V4	Vibration	N/A		No	
V5	Dissimilar Flange Rating	Accept		No	NO ISSUES.
V6	Ladder/Stairway	Accept		No	LADDER IS SECURED TO VESSEL.
V7	Heads	Accept		No	NO ISSUES, GOOD CONDITION.
V8	Guy Wires	N/A		No	
V9	Electrical Ground	Accept		No	GOOD CONNECTION.
V10	Painted Inactive Corrosion	N/A		No	
V11	Coating/Painting	Accept		No	PAINT IN GOOD CONDITION.
V12	Expansion Joint or Bellows	N/A		No	
V13	Gauge/Site Glass	Accept		No	ALL GAUGES IN GOOD CONDITION.
V14	Shell	Accept		No	NO ISSUES FOUND.
V15	Jacket	N/A		No	
V21	Support Other (Please explain)	N/A		No	
V22	Foundation	Accept		No	METAL FLOOR IN GOOD CONDITION.
V23	Anchor Bolts	Accept		No	SECURE.
V24	Saddle/Skirt	Accept		No	SKIRT IN GOOD CONDITION.
V25	Davit	N/A		No	
V26	Fireproofing	N/A		No	
V31	Connections Other (Please explain)	Accept		No	ALL PIPING CONNECTIONS ARE IN GOOD CONDITION.
V32	Small Branches	Accept		No	NO ISSUES.
V33	Nozzles	Accept		No	GOOD CONDITION.
V34	Manways	N/A		No	
V35	Reinforcing Pads	N/A		No	
V36	Inadequate Thread Engagement	Accept		No	NO ISSUES.
V37	Bolting	Accept		No	NO ISSUES.
V38	Flanges	Accept		No	GOOD CONDITION.
V39	Leak Clamps	N/A		No	
V41	Insulation Other (Please explain)	Accept		No	INSULATION ON TOP PORTION OF VESSEL (OUTSIDE OF BUILDING).
V42	Damage	Accept		No	NO DAMAGE OBSERVED.
V43	Penetrations	Accept		No	NO ISSUES.
V44	Insulation Jacket	Accept		No	ALUMINIUM CLADDING IN GOOD CONDITION.
V45	Banding	Accept		No	NO ISSUES.
V46	Seals/Joints	Accept		No	NO ISSUES OBSERVED.
V51	Relief Devices Other (Please explain)	Accept		No	SERVICED 10/28/2015 PSV IN GOOD CONDITION.
V52	Corrosion	Accept		No	NONE
V53	Leaks	Accept		No	NONE
V54	Restricted Inlet/Outlet	Accept		No	NONE

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 03-31-050-25W3

Date: 2017-02-09

SAP Equipment ID

62019972


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 (mm)	CURRENT READINGS (mm)	short term corr rate (mm/y)	long term corr rate (mm/y)	remaining life (year)	Survey Date	Comments
05 (HEAD)	14.27	17.78	0.0000	0.0000	198.0	2017/02/09	NO COMMENTS
10 (SHELL)	17.45	18.34	0.0000	0.0000	198.0	2017/02/09	NO COMMENTS
15 (SHELL)	17.45	18.39	0.0000	0.0000	198.0	2017/02/09	NO COMMENTS
20 (BAND 2 160)	8.74	9.27	0.0000	0.0000	198.0	2017/02/09	NO COMMENTS
25 (90L 2 STD)	3.91	3.30	0.0275	0.0275	48.2	2017/02/09	NO COMMENTS
30 (BAND 1 160)	6.40	6.86	0.0000	0.0000	198.0	2017/02/09	NO COMMENTS

Inspected By	Signature	CGSB Level	CGSB No.	Survey Date	UT Equip	Due Date OF Calibration	NDE Procedure No.
Jamey Tanasichuk		SNT LV 2	11444	02/09/2017	104_91638503_EPOCH4	06/27/2017	WQS UT-001



Client:
HUSKY ENERGY

EXAMINATION ILLUSTRATION

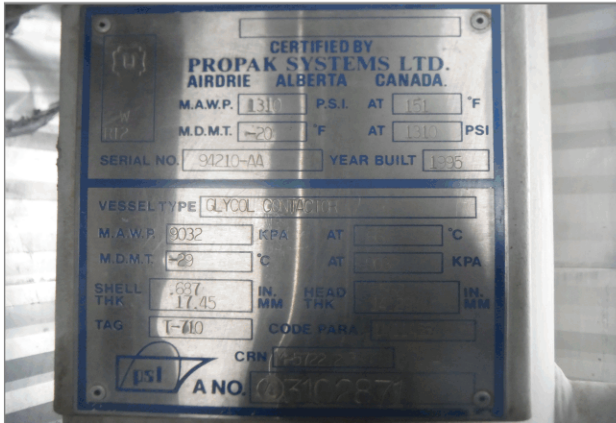
DISTRICT:	SASK WEST	FACILITY:	TANGLEFLAGS SOUTH	LOCATION/LSD:	03-31-050-25W3
EQUIP NAME:	GLYCOL CONTACTOR			PROV REG No.:	3102871
SERIAL No.:	94210-AA	Equip No.:	62019972	National Board No.:	



NOTES:

PHOTOGRAPHS

EQUIP NAME:	GLYCOL CONTACTOR		PROV REG No.:	3102871
SERIAL No.:	94210-AA	Equip No.:	62019972	National Board No.:



NAMEPLATE



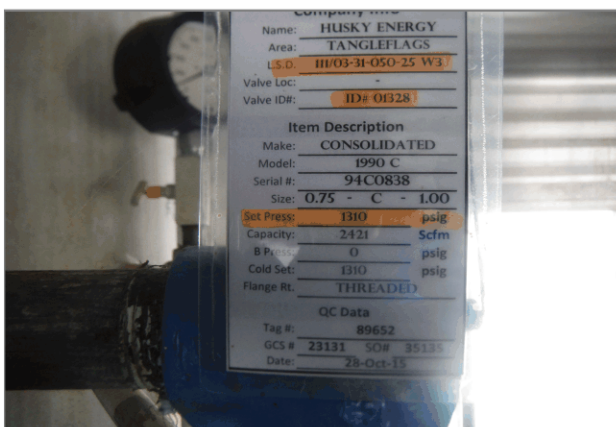
OVERALL



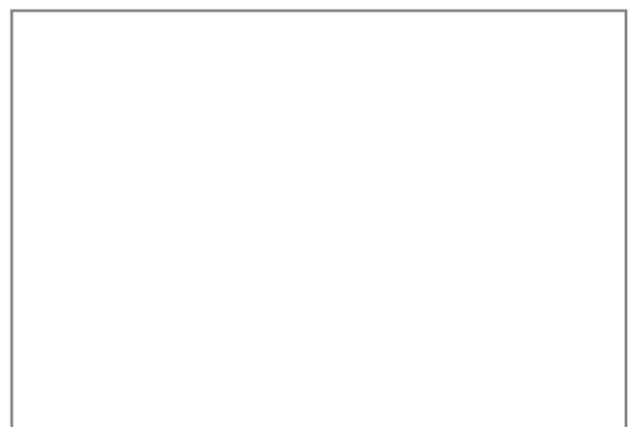
OVERALL



PSV



PSV TAG



NOTES: