

01-18-017-18W4M
GLYCOL SOCK FILTER
293-2FLC65694
REPORT # 293-2FL_GRADY INSPECTION LTD VE UT INSP_1APR2022

DATE 4/1/2022
CLIENT CNRL

Phone:403-793-7697

8 Sarah King Crt E Brooks, Alberta, T1R 0J8
grady.rustebakke@gmail.com

GRADY
INSPECTION LTD




RESULTS OF INSPECTION:


VE Inspection:
Fit For Service. NCR. No CRN stamped on vessel nameplate
UT Inspection:
No corrosion was found with the ultrasonic inspection.


PRESSURE EQUIPMENT										AB-506 INTERVAL													
DISTRICT		AB - OIL & NATURAL GAS				SHELL		TUBE		Upstream pressure vessels not													
FACILITY		Armada Gas Plant				MAWT		257		F		GRADE				YEARS		REG					
A#		YR		1983		MAWP		150				psi		3		Equip		PSV		UT		REG	
SERIAL #		293-2FL				PSV		150				psi											
CRN						PSV CRN		0G8841.5C															
EQUIP#						SERVICED		6/7/2017															
STATUS		IN SERVICE				UNIT		Refridge				X										X	
MANUFACTURER		FELCO IND.												INSPECTION RESULT:									
DH LSD						L		2.7		Ft		OD		.72		Ft		NCR-OPERATIONS					
REPAD		2				UNIQUE ID		C65694												NCR-REGULATORY/ADMIN		X	
																				ACTION ITEM RAISED			
																				REPAIR REQUIRED			
																				SUITABLE FOR SERVICE		X	
																				RECOMMENDATIONS:			
																				VE Inspection: Confirm CRN. Ensure CRN is stamped on vessel nameplate.			

SIGN OFF		API 510	EXP.	IPV	EXP.	INSPECTOR - PRIMARY	INSPECTOR - REVIEW	CLIENT SIGN OFF
INSPECTED BY	ToddM Mckenzie	97445	12/31/2022	00133	7/13/2026			
REVIEWED BY	Ashley Rustebakke	60285	7/31/2024	966	6/16/2026			

Ultrasonic Report		Date	3/30/2022	Phone: 403-793-7697 8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant		
DH-LSD		Field	Red Deer District		
Jurisdiction #					
Serial #	293-2FL	Ultrasonic Report #: 293-2FL_GRADY INSPECTION LTD VE UT INSP_1APR2022			

ULTRASONIC SET			COMPONENT DETAILS				CODE					
EQUIPMENT	CALIBRATION DUE	SERIAL NUMBER	MATERIAL GRADE	SURFACE PREP		TEMP	THICKNESS	CALIBRATION	EVALUATION			
EPOCH 600	2/25/2023	120388107	Carbon Steel	Painted		0C		ASME V	ASME VIII Div 1			
CALIBRATION BLOCK		PROBE						COUPLING		METHOD		
TYPE	SERIAL#	REF dB	SCAN dB	FREQ.	SIZE.	ANGLE	SERIAL #	TYPE	COUPLANT	CABLE	TECHNIQUE	PROCEDURE
10 Step Metric	14-2065	60	66	5 Mhz	0.25 "	0	15B00DU3	Dual	UT-X	6' BNC to Micro	LW Dual	UT01T1R4
SCOPE		As requested by Dustin Rumohr an ultrasonic inspection was completed on the FILTER										
LIMITATIONS		Previous ultrasonic inspection data not obtained by Grady Inspection Ltd.										
RESULTS		No corrosion was found with the ultrasonic inspection.										

Technician Name	Certification Body	Certification #	Expiry	Technician Signature			
3 ToddM	CGSB	9234					
				Client Name			
				Client Signature			

External Inspection - (Vessel)		Date	3/30/2022	Phone:403-793-7697 8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant		
DH-LSD		Field	Red Deer District		
Jurisdiction #					

Fit For Service:	Fit For Service.
Inspection Summary:	NCR. No CRN stamped on vessel nameplate
Recommendations:	Confirm CRN. Ensure CRN is stamped on vessel nameplate.

External Inspection Items	G/F/P	Comments
General Condition:	Good	No notable mechanical damage, areas of wear/fretting, distortion, misalignment, or visible weld defects.
External Coating:	Good	Vessel is in good visual condition. Vessel is painted. Vessel is indoors.
Insulation / Cladding:	N/A	Non insulated vessel
Nozzles, Piping and Connections:	Good	Number of nozzles repaded: 0 Number of nozzles without repad: 2 Nozzles and piping in good visual condition
Buried Vessels:	N/A	Above Ground
Ladders, Platforms and Walkways:	N/A	No attached ladder or platform
Foundations and Supports:	Good	Anchor bolts fully engaged Concrete pilings are intact with no visible deficiencies Building is secure
Shell:.	Good	No notable mechanical damage, areas of wear/fretting, distortion, misalignment or visible weld defects.
Saddles / Skirts:	Good	Saddle is in good visual condition and secure.
Grounding:	Good	Ground Wire is secure Grounded through piping system
Gauges and Instrumentation:	Fair	<div>Shell Gauge (0 - 60 @ 5)</div> <div>Temp Gauge (- @)</div> <div>Gauge is clear, colorless and correct for the MAWP.</div>
Pressure Protection:	Good	The PSV Set Pressure (150 psi) is suitable for the MAWP (150. psi)
NDE Summary:	Good	No corrosion was found with the ultrasonic inspection.
Manway Davits/Quick Closure:	N/A	No Manway
Nameplate:	Poor	Nameplate is legible and readily accessible and securely affixed No CRN visible.

Code Variance:

PSV Data

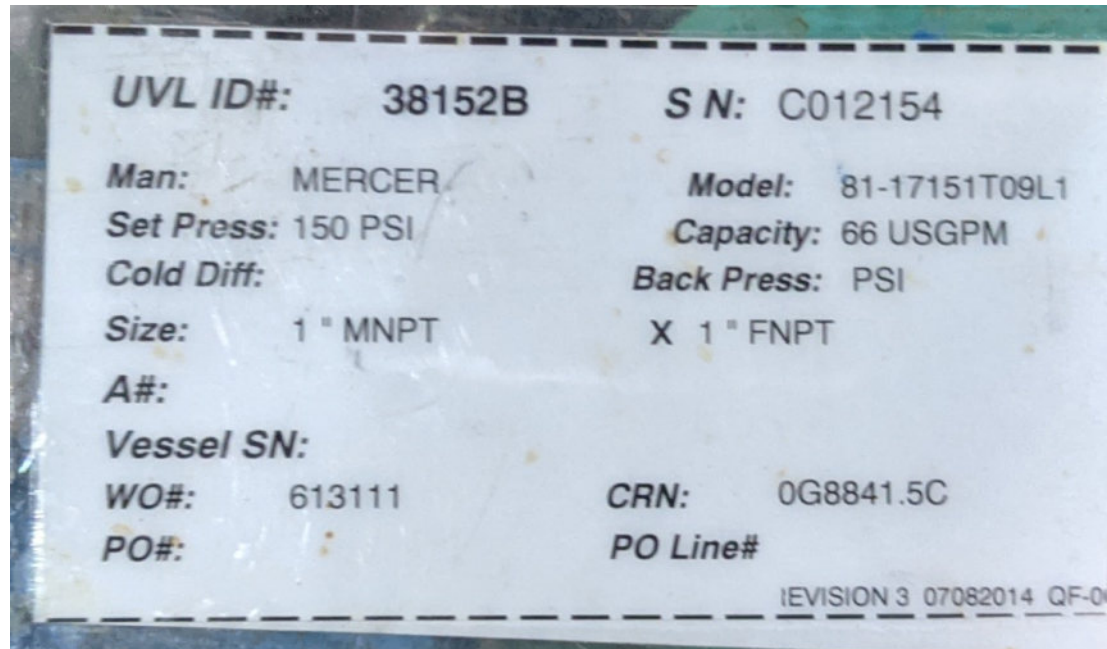
LSD

01-18-017-18W4M

FACILITY Armada Gas Plant

FIELD Red Deer District

Phone:403-793-7697

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ASSOCIATED PRESSURE EQUIPMENT DATA

PV JUR/SER 293-2FL

SHELL TUBE

MAWP 150 psi

PSV FIT FOR SERVICE STATEMENT

Fit For Service.

PSV STATIC DATA

MODEL 81-17151T09L1

SERIAL C012154

MANUFACTURER MERCER

TAG 38152B

CRN 0G8841.5C

SEAL Y

SET PRES 150 psi

CAPACITY 66 USGP

SERVICE DATE 6/7/2017

SERVICE COMPANY Unified Valve Group

T/F UV NB

T UV NB

SIZE B VALVE CARSEAL

INLET 1 N

OUTLET 1 N

PSV COMMENTS

Overview Photo

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Jur #
Serial # 293-2FL

Date	4/1/2022
FACILITY	Armada Gas Plant
FIELD	Red Deer District

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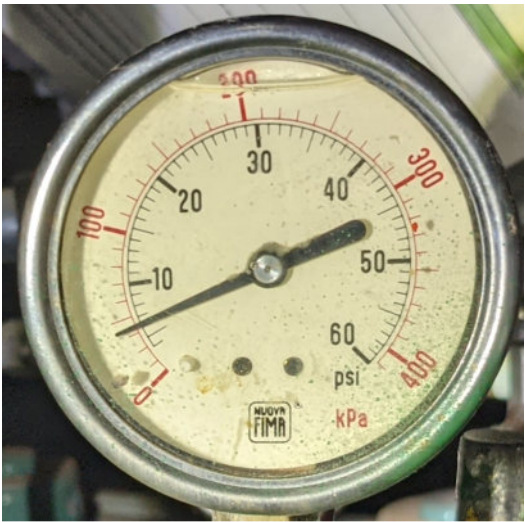
Nameplate



Overview



CNRL C Number



Pressure Gauge

Phone:403-793-7697

FACILITY Armada Gas Plant

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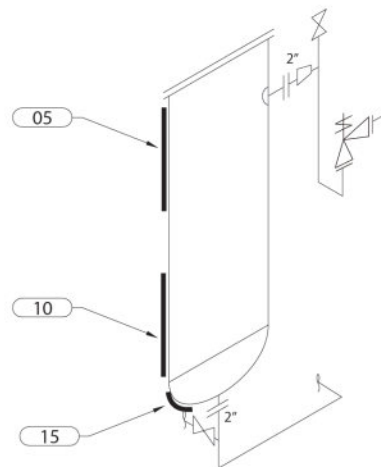
DWG 1

Location:

Inspection Dates and Thickness Values (mm)

CML#	Nom	CA/Tol	SFlag	STmin	PTmin	> Tmin	Comp	Type	Pipe Size	Code	MOP	Baseline		3rd Last		2nd Last		Last		# of Insp	Nom Wall Loss	Corrosion Rates			Rem Life Date	Rem Life (yrs)	Next Insp Date	Int Insp (yrs)	Inspection Comments
												Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave			ST	LTn	LTi					

CML	Min	Yrs	Date
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Date of Print
4/26/2022

Nominal (mm)	Pipe Tolerance 12% (mm) Corrosion Allowance (mm)	API 574 Table 7 Flag Tmin	Pressure Tmin Structural Tmin
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%Nom -UT	10-20	20-30
	30-50	>50

Cor. Rates (mm/yr)	0.025 - 0.25	0.26 - 0.5
	0.501 - 1	>1.0

Calculated Failure (years)	3-5	2-3
	1-2	< 1

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DH-LSD FIELD Red Deer District
Jur # DWG 1 Location:
Ser # 293-2FL

Phone:403-793-7697

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Ser #		293-2FL		Inspection Dates and Thickness Values (mm)																								
CML#	Nom	CA/Tol	SFlag	STmin	PTmin	> Tmin	Comp Type	Pipe Size	Code	MOP	Baseline		3rd Last		2nd Last		Last		# of Insp	% Norm Wall Loss	Corrosion Rates			Rem Life Date	Rem Life (yrs)	Next Insp Date	Insp (yrs)	Inspection Comments
											Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave			ST	LTn	LTi					
05	5.0	5.0	3.3	1.6	1.6		Shell		UG27ShellInt	150	4/3/14	5.2			11/28/17	5.2	4/1/22	5.0	5.2	3	0%	0.05	0.03	12/15/2094		3/29/2032	10.0	
10	5.0	5.0	3.3	1.6	1.6		Shell		UG27ShellInt	150	4/3/14	5.0			11/28/17	5.1	4/1/22	4.9	5.2	3	2%	0.05	0.01	10/14/2092		3/29/2032	10.0	
15	8.0	8.0	1.6	1.6	1.6		Head		UG32HeadEll	150	4/3/14	7.9			11/28/17	8.1	4/1/22	7.8	8.5	3	3%	0.07	0.01	2/2/2112		3/29/2032	10.0	