

01-18-017-18W4M
FUEL GAS SEPARATOR
79-957-61C87380
REPORT # 79-957-61_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




RESULTS OF INSPECTION:


VE Inspection:
Fit For Service. Ground not confirmed.
NCR. Check valve on PSV discharge piping causing restriction
UT Inspection:
No corrosion was found with the ultrasonic inspection.


PRESSURE EQUIPMENT										AB-506 INTERVAL																																					
DISTRICT					SHELL					TUBE					Fuel gas scrubbers																																
FACILITY					ARMADA					MAWT					100					F																											
A#					YR					1978					MAWP					275										psi																	
SERIAL #					79-957-61										PSV					150					psi																						
CRN					D2845.2										PSV CRN					0G8841.5C																											
EQUIP#															SERVICED					6/7/2017																											
STATUS					IN SERVICE					UNIT					K101					INSPECTION TYPE																											
																				VE		VI		MT		PT		ET		UT																	
																				X										X																	
MANUFACTURER					DACRO INDUSTRIES INC					INSPECTION RESULT:																																					
DH LSD										L					4.5					Ft					OD					.55					Ft					NCR-OPERATIONS						X	
REPAD					0					UNIQUE ID					C87380					NCR-REGULATORY/ADMIN <td colspan="2"></td>																											
																				ACTION ITEM RAISED <td colspan="2"></td>																											
																				REPAIR REQUIRED <td colspan="2"></td>																											
																				SUITABLE FOR SERVICE <th colspan="2">X</th>						X																					
																				RECOMMENDATIONS:																											
																				VE Inspection: Remove Check valve on PSV discharge line.																											

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	4/1/2022	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 #	79-957-61				
Ultrasonic Report #: 79-957-61_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 FUEL GAS SEPARATOR										
LIMITATIONS		Calculations performed with the known variables from a vessel with the same CRN.										
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	4/1/2022	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:	Ground not confirmed. NCR. Check valve on PSV discharge piping causing restriction
Recommendations:	Remove Check valve on PSV discharge line.

External Inspection Items	G/F/P	Comments
General Condition:	Good	No notable external corrosion, mechanical damage, areas of wear/fretting, distortion, misalignment, current leaks, or visible weld defects.
External Coating:	Good	Vessel is in good visual condition. Vessel is indoors. Vessel is painted.
Insulation / Cladding:	N/A	Non insulated vessel
Nozzles, Piping and Connections:	Good	Nozzles and piping in good visual condition There is 2 non rep added nozzles and zero repadded nozzles.
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 Building is secure Concrete is intact with no visible deficiencies
Shell:.	Good	No notable external corrosion, mechanical damage, areas of wear/fretting, distortion, misalignment, current leaks, or visible weld defects.
Saddles / Skirts:	Good	Saddle is in good visual condition
Grounding:	N/A	Not confirmed
Gauges and Instrumentation:	Good	<div>Shell Gauge (0 - 300 @ 135 psi) Temp Gauge (- @)</div> <div>Gauge is clear, colorless and correct for the MAWP.</div>
Pressure Protection:	Poor	PSV set pressure of 150 PSI is suitable for MAWP of 275PSI Restriction noted in PSV discharge piping with check valve installed.
NDE Summary:	Good	No corrosion was found with the ultrasonic inspection.
Manway Davits/Quick Closure:	N/A	No Manway.
Nameplate:	Good	Nameplate is legible and readily accessible and securely affixed
Code Variance:		

PSV Data

LSD

01-18-017-18W4M

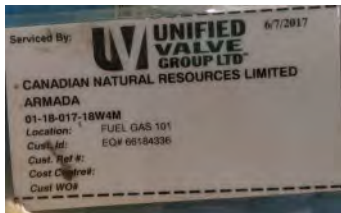
FACILITY Armada Gas Plant

FIELD Red Deer District

Phone: 403-793-7697

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grady.rustebakke@gmail.com**GRADY**
INSPECTION LTD

UVL ID#: 38071B		S N: 699145	
Man: MERCER		Model: 91-23F51V09U1	
Set Press: 150 PSI		Capacity: 908 SCFM	
Cold Diff:		Back Press: PSI	
Size: 1" MNPT		X 1.5" FNPT	
A#:			
Vessel SN:			
WO#: 613111		CRN: 0G8841.5C	
PO#:		PO Line#	
REVISION 3 / 7082014 QF-01			



ASSOCIATED PRESSURE EQUIPMENT DATA

PV JUR/SER 79-957-61

SHELL TUBE

MAWP 275 psi

PSV FIT FOR SERVICE STATEMENT

Not Fit For Service.

PSV STATIC DATA

MODEL 91-23F51V09U1

SERIAL 699145

MANUFACTURER MERCER

TAG 38071B

CRN 0G8841.5C

SEAL Y

SET PRES 150 psi

CAPACITY 908 SCFM

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 1.5 N

PSV COMMENTS

Check valve on PSV discharge line causing restriction

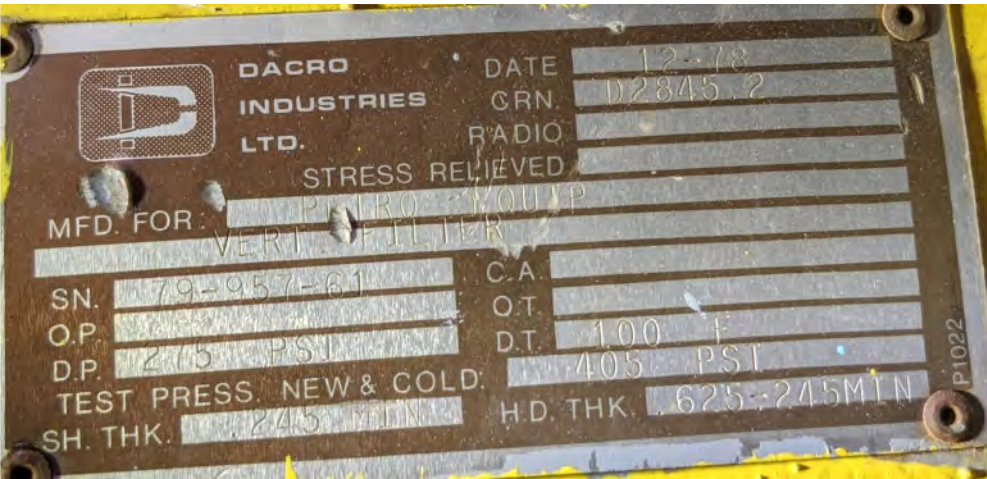
Overview Photo

LSD 01-18-017-18W4M
Jur #
Serial # 79-957-61

Date	4/1/2022
FACILITY	Armada Gas Plant
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Nameplate



Overview



Pressure Gauge

Phone: 403-793-7697

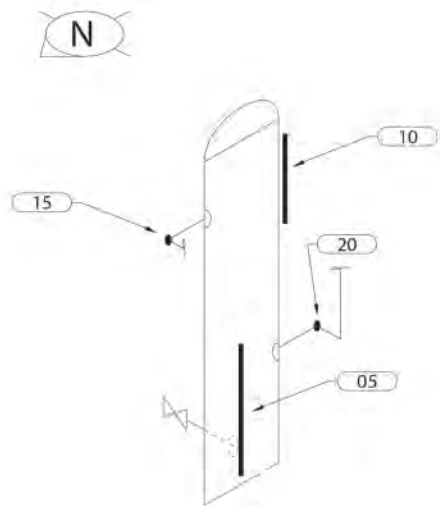
FACILITY Armada Gas Plant

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DWG 1

Location:

CML#	Nom	CA/Tol	SFI	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 (yrs)	Next Insp Date	Insp (yrs)	Int Inspection Comments
											Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave			ST	LTn	LTi					



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LSD 01-18-017-18W4M FACILITY Armada Gas Plant
DH-LSD FIELD Red Deer District
Jur # DWG 1 Location:
Ser # 79-957-61

Phone: 403-793-7697

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Ser #		79-957-61		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 (yrs)	Rem Life (yrs)	Next Insp Date	Insp Int (yrs)	Inspection Comments
												Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave			ST	LTn	LTi					
05	6.2	6.2	4.1	2.1	2.1		Shell			UG27ShellInt	275	4/1/22	6.9	7.1						1	-11%					3/29/2032	10.0		
10	6.2	6.2	4.1	2.1	2.1		Shell			UG27ShellInt	275	4/1/22	6.9	7.1						1	-11%					3/29/2032	10.0		
15	3.9	3.4	2.5	1.8	0.4	1.8	Elbow	2" STD 40-- (3.9mm)		API570	275	4/1/22	3.8	4.1						1	3%	0.00		3/13/2907		3/29/2032	10.0		
20	3.9	3.4	2.5	1.8	0.4	1.8	Elbow	2" STD 40-- (3.9mm)		API570	275	4/1/22	4.1	4.4						1	-5%					3/29/2032	10.0		