

01-18-017-18W4M
2ND STG DISCHARGE BOTTLE
A0421913
REPORT # A#0421913_GRADY INSPECTION LTD VE UT INSP_30MAR2022

DATE 3/30/2022
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. Vessel is in good visual condition.
PSV due for service
UT Inspection:
No corrosion was found with the ultrasonic inspection.


PRESSURE EQUIPMENT										AB-506 INTERVAL													
DISTRICT		AB - OIL & NATURAL GAS				SHELL		TUBE		Compressor Bottles in vibrating													
FACILITY		Armada Gas Plant				MAWT		300		F		GRADE		YEARS			REG						
A#		A0421913		YR		1997		MAWP		1000						psi							
SERIAL #								PSV		870						psi							
CRN		N6379.2				PSV CRN		0G0449.2				INSPECTION TYPE											
EQUIP#						SERVICED		3/21/2016															
STATUS		IN SERVICE				UNIT		K301				VE		VI		MT		PT		ET		UT	
MANUFACTURER		BIMAC INDUSTRIES LTD.								INSPECTION RESULT:													
DH LSD						L		3		Ft		OD		.9		Ft		NCR-OPERATIONS					
REPAD		UNIQUE ID								NCR-REGULATORY/ADMIN													
										ACTION ITEM RAISED													
										REPAIR REQUIRED													
										SUITABLE FOR SERVICE				X									
										RECOMMENDATIONS:													
										VE Inspection: Service PSV													

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 # A0421913					
Serial #					
Ultrasonic Report #: A#0421913_GRADY INSPECTION LTD VE UT INSP_30MAR2022					

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 COMPRESSOR BOTTLE										
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			
LSD	01-18-017-18W4M	Facility	Armada Gas Plant		8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com			
DH-LSD		Field	Red Deer District					
Jurisdiction #		A0421913						
Fit For Service:		Fit For Service.						
Inspection Summary:		Vessel is in good visual condition. PSV due for service						
Recommendations:		Service PSV						
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 indoors.					
Insulation / Cladding:		N/A	Non insulated vessel					
Nozzles, Piping and Connections:		Good	Number of nozzles repaded: Number of nozzles without repad: 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	Building is secure Building on concrete foundation					
Shell:.		Good	No notable mechanical damage, areas of wear/fretting, distortion, misalignment or visible weld defects.					
Saddles / Skirts:		Good	Vessel is mounted to compressor module by flange bolting.					
Grounding:		Good	Ground Wire is secure Grounded through piping system					
Gauges and Instrumentation:		Good	<div>Shell Gauge (- @)Temp Gauge (- @)</div> Compressor is digitally monitored for pressure and temperature.					
Pressure Protection:		Fair	The PSV Set Pressure (870 psi) is suitable for the MAWP (1000 psi) PSV Due for Service, not yet exceeding six months or 10% of Interval AB 506 2014 11.4.1 Interval Deferral Notwithstanding the above, an inspection or PRV servicing interval may be deferred by the Inspector, without other approvals, based on a satisfactory review of the equipment history, when the period of time for which the item is to be deferred does not exceed 10 % of the inspection/servicing interval or six months, whichever is less.					
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

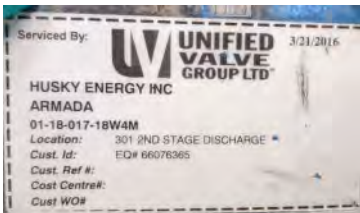
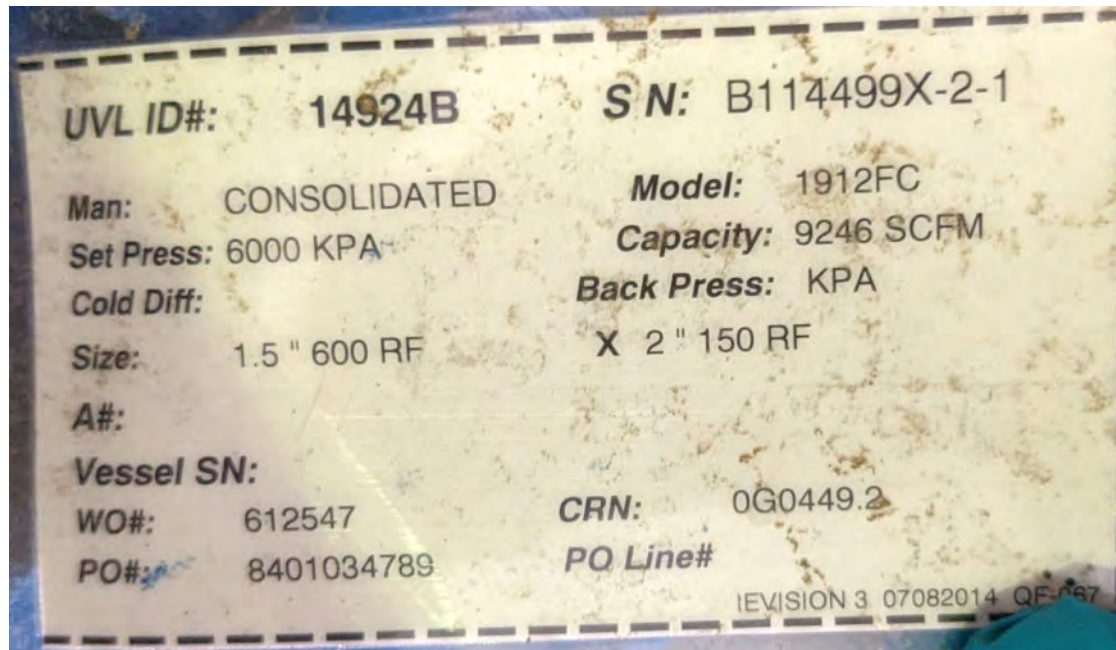
LSD

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FACILITY Armada Gas Plant

FIELD Red Deer District

Phone: 403-793-7697

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INSPECTION LTD

ASSOCIATED PRESSURE EQUIPMENT DATA

PV JUR/SER A0421913

SHELL

TUBE

MAWP

1000

psi

PSV FIT FOR SERVICE STATEMENT

Fit For Service.

PSV STATIC DATA

MODEL 1912FC

SERIAL B114499X-2-1

MANUFACTURER CONSOLIDATED

TAG 14924B

CRN OG0449.2

SEAL Y

SET PRES

870

psi

CAPACITY 9246

SCFM

SERVICE DATE

3/21/2016

SERVICE COMPANY

Unified Valve Group

T/F

UV

NB

F

UV

NB

SIZE

B VALVE

CARSEAL

INLET

1.5

N

OUTLET

2

N

PSV COMMENTS

PSV due for service

Overview Photo

LSD 01-18-017-18W4M
Jur # A0421913
Serial #

Date

3/30/2022

FACILITY

Armada Gas Plant

FIELD

Red Deer District

Phone: 403-793-7697

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Nameplate



Overview



Temperature Gauge

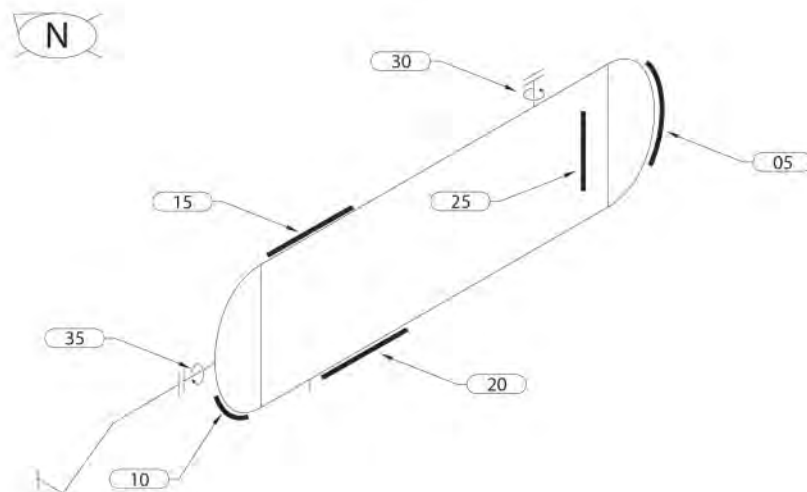
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INSPECTION LTD

Ser #

Ser #	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		% Nom Wall Loss	Corrosion Rates			Rem Life	Rem Life	Next	Insp	Inspection
											Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave	# of Insp	ST	LtN	LTI	Date	(yrs)	Insp Date	(Int)	Comments



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LSD 01-18-017-18W4M FACILITY Armada Gas Plant
DH-LSD FIELD Red Deer District
Jur # A0421913 DWG 1 Location:
Ser #

Phone: 403-793-7697

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Ser #	Inspection Dates and Thickness Values (mm)																								%	Corrosion Rates			Rem	Rem	Insp		Inspection Comments
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	ST	LTn	LTi	Rem Life Date	Life (yrs)	Next Insp Date	Int (yrs)					
05	10.5	10.5	7.2	7.2	7.2		Head		UG32HeadEli	1000	4/4/07	11.7	12.1			11/28/17	12.3		3/30/22	11.5	12.9	4	-9%	0.18	0.01			3/28/2028	6.0				
10	10.5	10.5	7.2	7.2	7.2		Head		UG32HeadEli	1000	9/23/15	12.5	10.5			11/28/17	12.6		3/30/22	12.2	12.7	3	-16%	0.09	0.05			3/28/2028	6.0				
15	12.7	12.6	17.2	8.6	8.6		Shell		UG27ShellInt	1000	4/4/07	14.4	14.5			9/23/15	13.8		3/30/22	13.2	13.5	3	-4%	0.09	0.08			3/28/2028	6.0				
20	12.7	12.6	17.2	8.6	8.6		Shell		UG27ShellInt	1000	9/23/15	14.0	14.2			11/28/17	13.2		3/30/22	12.7	13.2	3	0%	0.12	0.20			3/28/2028	6.0				
25	12.7	12.6	17.2	8.6	8.6		Shell		UG27ShellInt	1000	3/30/22	13.0	13.5								1	-2%					3/28/2028	6.0					
30	21.9			6.2	6.2		Nozzle	6" XXS ---- (21.9mm)	UG45Nozzle	1000	11/28/17	21.9	22.2					3/30/22	21.5	22.5	2	2%	0.09				3/28/2028	6.0					
35	17.1			5.3	5.3		Nozzle	4" XXS ---- (17.1mm)	UG45Nozzle	1000	9/23/15	18.1	18.5			11/28/17	17.7		3/30/22	17.4	18.0	3	-2%	0.07	0.11			3/28/2028	6.0				