

01-18-017-18W4M
INLET SEPARATOR
A0416400
REPORT # A#0416400_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		Well-head vessels (separators,																			
FACILITY		Armada Gas Plant				MAWT		130		F		GRADE				YEARS		REG											
A#		A0416400		YR		1997		MAWP		720				psi		3		10		6		10		X					
SERIAL #						PSV		635				psi		INSPECTION TYPE															
CRN		N6256.2				PSV CRN		0G2369.5C				VE								VI		MT		PT		ET		UT	
EQUIP#						SERVICED		3/21/2016				X																X	
STATUS		IN SERVICE				UNIT		K301				INSPECTION RESULT:																	
MANUFACTURER		PENFABCO LTD.										NCR-OPERATIONS																	
DH LSD						L		10		Ft		OD		3		Ft		NCR-REGULATORY/ADMIN											
REPAD		UNIQUE ID										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	12/31/202	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 #	A0416400				
Serial #					
Ultrasonic Report #: A#0416400_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 SEPARATOR										
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		
Juristiction #	A0416400				

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. Paint is intact and well adhered to the vessel.
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	Anchor bolts fully engaged 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	Skirt is in good visual condition
Grounding:	Good	Ground Wire is secure Grounded through piping system
Gauges and Instrumentation:	Good	<div>Shell Gauge (- @) Temp Gauge (- @)</div> <div>No gauges found. Compressor is digitally monitored for pressure and temperature.</div>
Pressure Protection:	Fair	The PSV Set Pressure (635 psi) is suitable for the MAWP (720 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

PSV Data

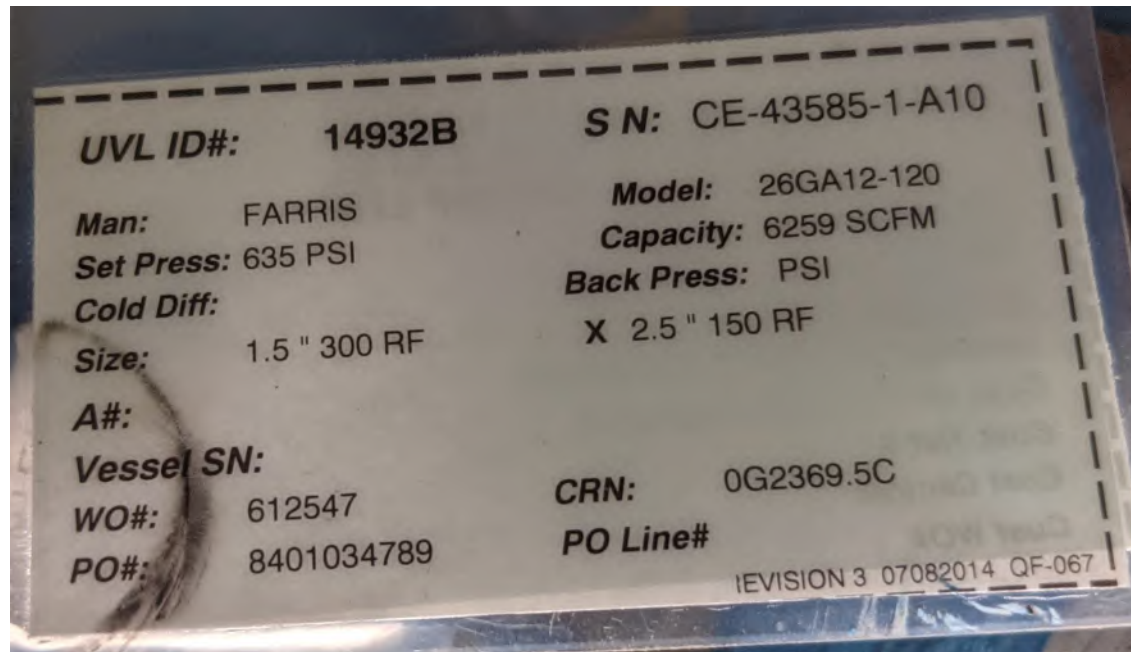
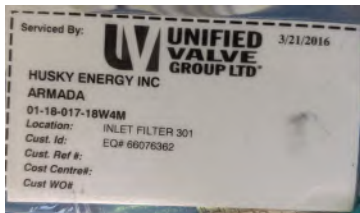
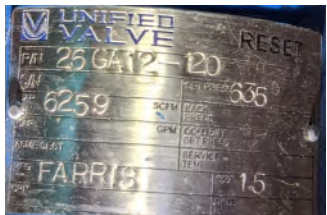
LSD

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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 A0416400

SHELL

TUBE

MAWP

720

psi

PSV FIT FOR SERVICE STATEMENT

Fit For Service.

PSV STATIC DATA

MODEL 26GA12-120

SERIAL CE-43585-1-A10

MANUFACTURER Farris

TAG 14932B

CRN 0G2369.5C

SEAL Y

SET PRES

635

psi

CAPACITY

6259

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

N

OUTLET

2.5

N

N

PSV COMMENTS

PSV due for service

Overview Photo

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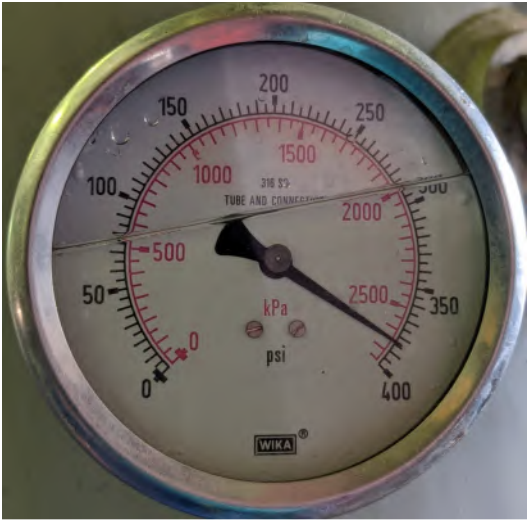
Nameplate



Overview



Overview



Pressure Gauge

Overview Photo

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Liquid Level

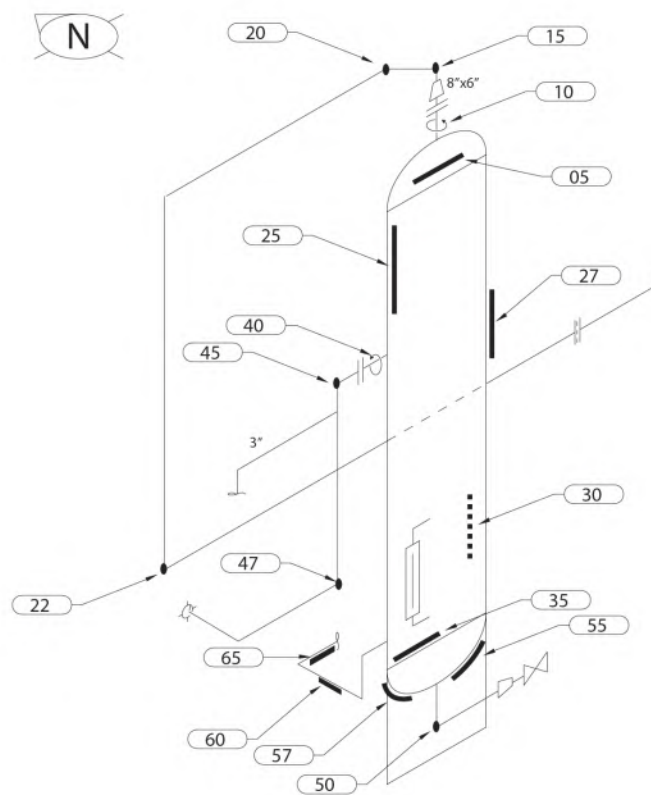
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GRADY
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Ser #

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



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LSD 01-18-017-18W4M FACILITY Armada Gas Plant
DH-LSD FIELD Red Deer District
Jur # A0416400 DWG 1 Location:
Ser #

Phone:403-793-7697

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Ser #	Inspection Dates and Thickness Values (mm)																				%	Corrosion Rates			Rem	Insp		Insp	Int	Inspection
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	Rem Life (yrs)	Next Insp Date			
05	24.6	24.5	17.8		17.8	17.8	Head		UG32HeadEll	720		5/18/07	26.7	26.8				3/30/22	25.4	25.7	2	-3%	0.09				3/27/2032	10.0		
22	7.1	6.2	3.3	2.8	3.0	3.0	Elbow	6" STD 40--(7.1mm)	API570	720		3/30/22	7.0	7.3							1	1%	0.00		7/26/3024		3/27/2032	10.0		
27	22.2	22.1	36.6		18.2	18.2	Shell		UG27ShellInt	720		5/18/07	23.7	23.7		11/28/17	22.6		3/30/22	22.6	22.8	3	-2%				3/27/2032	10.0		
30	22.2	22.1	36.6		18.2	18.2	Shell		UG27ShellInt	720		5/18/07	23.5	23.5		11/28/17	22.7		3/30/22	22.6	22.8	4	-2%	0.02	0.06		3/27/2032	10.0		
35	22.2	22.1	36.6		18.2	18.2	Shell		UG27ShellInt	720		5/18/07	23.4	23.5		11/28/17	26.3		3/30/22	22.5	22.8	4	-1%	0.88	0.06		3/27/2032	10.0		
40							Nozzle	8" STD 40--(8.2mm)	UG45Nozzle	720																				
45	8.2	7.2	3.3	2.8	3.9	3.9	Elbow	8" STD 40--(8.2mm)	API570	720		9/23/15	9.2	9.4		11/28/17	9.3		3/30/22	8.9	9.5	3	-9%	0.09	0.05		3/27/2032	10.0		
47	6.0	5.3	3.1	2.3	2.1	2.3	Elbow	4" STD 40--(6mm)	API570	720		3/30/22	5.8	6.2							1	3%	0.01		12/15/2463		3/27/2032	10.0		
50	8.7			3.4		3.4	Nozzle	2" -- 160--(8.7mm)	UG45Nozzle	720		9/23/15	7.9	8.1			3/30/22	7.9	8.4	2	9%					3/27/2032	10.0			
57	24.6	24.5	17.8		17.8	17.8	Head		UG32HeadEll	720		3/30/22	24.8	26.0							1	-1%					3/27/2032	10.0		
60	5.5	4.8	2.5	1.8	1.1	1.8	Pipe	2" XS 80--(5.5mm)	API570	720		9/23/15	5.5	5.6			3/30/22	5.3	5.5	2	4%	0.03				3/27/2032	10.0			
65	5.5	4.8	2.5	1.8	1.1	1.8	Pipe	2" XS 80--(5.5mm)	API570	720		9/23/15	5.5	5.6			3/30/22	5.2	5.4	2	5%	0.05				3/27/2032	10.0			