

01-18-017-18W4M  
PROPANE CONDENSER  
A3102297 952640  
REPORT # A#3102297\_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. Vessel is in good visual condition.  
Loose bolting identified on NE head bracket  
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	325		F		GRADE			
A#	A3102297		YR	1995	MAWP	300		psi		YEARS			
										REG			
SERIAL #	952640				PSV	300		psi		3			
CRN	M1905.2				PSV CRN	0G7155.5C				Equip PSV UT			
EQUIP#					SERVICED	4/11/2016				10 6 10 X			
STATUS	IN SERVICE				UNIT	Refridge yard north		INSPECTION TYPE					
								VE	VI	MT	PT	ET	UT
MANUFACTURER	THERMOTECH ENERGY SYSTEMS LTD.						X						
DH LSD					L	Ft	OD	.25	Ft	INSPECTION RESULT:			
REPAD	UNIQUE ID						NCR-OPERATIONS						
							NCR-REGULATORY/ADMIN						
							ACTION ITEM RAISED						
							REPAIR REQUIRED						
							SUITABLE FOR SERVICE						
							RECOMMENDATIONS:						
							VE Inspection: Correct Loose Bolting						

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**

LSD 01-18-017-18W4M

DH-LSD

Jurisdiction # A3102297

Serial # 952640

Ultrasonic Report #: A#3102297\_GRADY INSPECTION LTD VE UT INSP\_1APR2022

Date

3/30/2022

Facility

Armada Gas Plant


Field


Red Deer District

Phone:403-793-7697

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INSPECTION LTD

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 CONDENSER										
LIMITATIONS		None.										
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			

<b>External Inspection - (Vessel)</b>		<b>Date</b>	3/30/2022	Phone:403-793-7697 8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
<b>LSD</b>	01-18-017-18W4M	<b>Facility</b>	Armada Gas Plant		
<b>DH-LSD</b>		<b>Field</b>	Red Deer District		
<b>Jurisdiction #</b>		A3102297			

<b>Fit For Service:</b>	Fit For Service.
<b>Inspection Summary:</b>	Vessel is in good visual condition. Loose bolting identified on NE head bracket
<b>Recommendations:</b>	Correct Loose Bolting

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	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: 2 Loose bolting identified on NE head bracket
Buried Vessels:	N/A	Above Ground
Ladders, Platforms and Walkways:	Good	Building secure
Foundations and Supports:	Good	Anchor bolts fully engaged
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
Grounding:	Good	Grounded through piping system
Gauges and Instrumentation:	N/A	<div>Shell Gauge ( - @ )Temp Gauge ( - @ )</div> <div>No gauges found. Digitally Monitored</div>
Pressure Protection:	Good	The PSV Set Pressure ( 300 psi) is suitable for the MAWP ( 300 psi)
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**

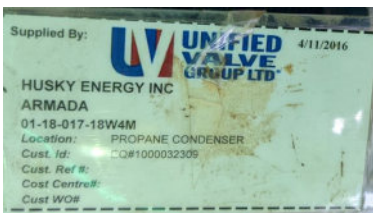
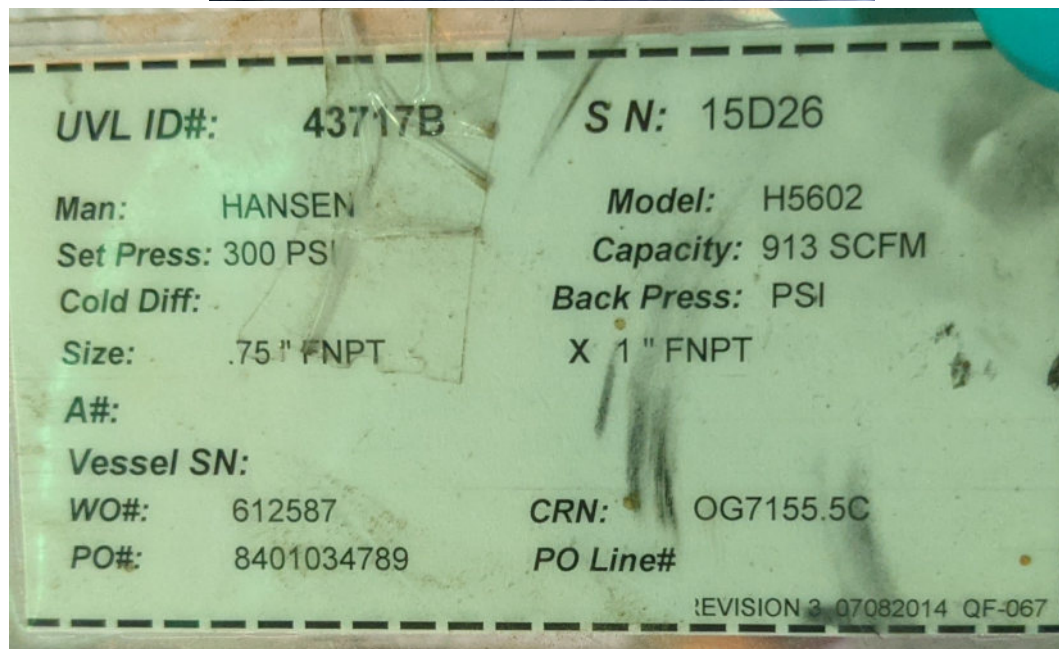
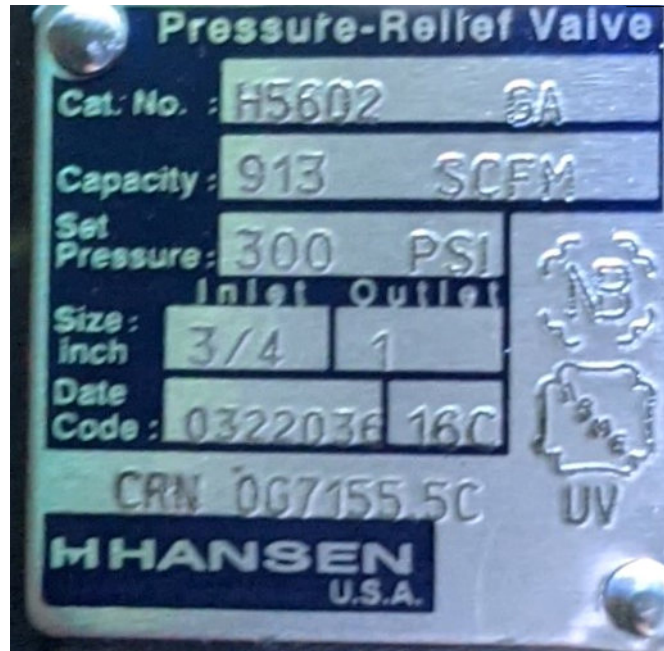
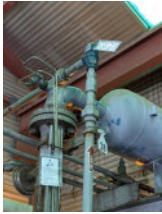
01-18-017-18W4M

**FACILITY** Armada Gas Plant

**FIELD** Red Deer District

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**GRADY**  
 INSPECTION LTD

**ASSOCIATED PRESSURE EQUIPMENT DATA**
**PV JUR/SER** A3102297 952640

**SHELL** **TUBE**
**MAWP** 300 psi

**PSV FIT FOR SERVICE STATEMENT**

Fit For Service.

**PSV STATIC DATA**
**MODEL** H5602

**SERIAL** 15D26

**MANUFACTURER** HANSEN

**TAG** 43717B

**CRN** 0G7155.5C

**SEAL** Y

**SET PRES** 300 psi

**CAPACITY** 913 SCFM

**SERVICE DATE** 4/11/2016

**SERVICE COMPANY** Unified Valve Group

**T/F** **UV** **NB**
**T** **UV** **NB**
**SIZE** **B VALVE** **CARSEAL**
**INLET** .75 Y Y

**OUTLET** 1 Y Y

**PSV COMMENTS**

Covered by Propane Coalescer PSV. Inlet and Outlet Block valves ineffective.



Overview Photo

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Jur # A3102297  
Serial # 952640

Date

4/1/2022

FACILITY

Armada Gas Plant

FIELD

Red Deer District

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**GRADY**  
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Nameplate



Overview



Alternate Overview



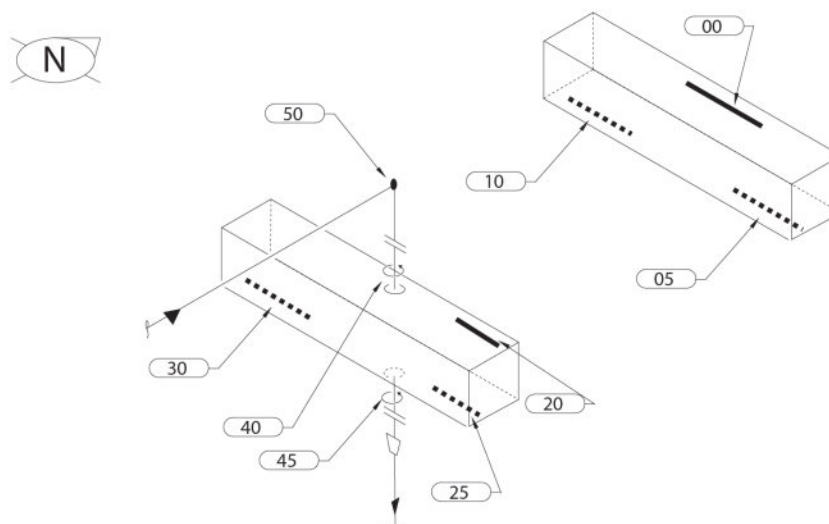
Loose Bolting

Phone:403-793-7697

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**GRADY**  
INSPECTION LTD

Ser #		Inspection Dates and Thickness Values (mm)																%		Corrosion Rates			Rem Life		Next		Insp	
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	Insp Int (yrs)	Inspection Comments
											Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave			ST	LTn	LTi					



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DWG

1

Location:

Ser # 952640



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	Insp Int (yrs)	Inspection Comments
											Date	Min	Ave	Date	Min	Ave	Date	Min	Ave			ST	LTn	LTi					
00	12.7	12.7	1.3	0.6	0.6		Shell		UG27ShellInt	300	4/1/12	12.9	13.0				4/1/22	12.9	13.1	2	-2%				3/29/2032	10.0			
05	12.7	12.7	1.3	0.6	0.6		Shell		UG27ShellInt	300	4/1/12	13.0	13.0				4/1/22	12.7	13.0	2	0%	0.03			3/29/2032	10.0			
10	12.7	12.7	1.3	0.6	0.6		Shell		UG27ShellInt	300	4/1/12	12.9	13.0				4/1/22	12.8	13.0	2	-1%	0.01			3/29/2032	10.0			
20	12.7	12.7	1.3	0.6	0.6		Shell		UG27ShellInt	300	4/1/12	12.8	12.9				4/1/22	12.8	13.0	2	-1%				3/29/2032	10.0			
25	12.7	12.7	1.3	0.6	0.6		Shell		UG27ShellInt	300	4/1/12	12.9	13.0				4/1/22	12.8	13.0	2	-1%	0.01			3/29/2032	10.0			
30	12.7	12.7	1.3	0.6	0.6		Shell		UG27ShellInt	300	4/1/12	13.0	13.0				4/1/22	12.7	13.0	2	0%	0.03			3/29/2032	10.0			
40	7.6			4.8		4.8	Nozzle	3" XS 80--(7.6mm)	UG45Nozzle	300	4/1/12		7.5	7.8			4/1/22	7.4	8.0	2	3%	0.01		3/21/2282		3/29/2032	10.0		
45	8.7			3.4		3.4	Nozzle	2" -- 160--(8.7mm)	UG45Nozzle	300	4/1/12	8.8	9.0				4/1/22	8.6	8.8	2	1%	0.02			3/29/2032	10.0			
50	5.5	4.8	2.8	2.0	0.7	2.0	Elbow	3" STD 40--(5.5mm)	API570	300	4/1/12	5.6	5.7				4/1/22	5.7	6.0	2	-4%				3/29/2032	10.0			