

Report #: 156892-MD-33
Inspect Date: 08/07/2012
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Insp. Co. Job #: 156892

Criticality Designation:					Gr	een			
Insp. Comp:Matrix_Insp	ection	District:	St Albert	- North	_	Field:	Se	dalia	
Location: 06-21-30-0		nit / Skid #:		Ą		LSD: _		30-04 W4	
Jurisdiction #: A05591		quip Tag #:				erial #: _		10671	
CRN #: R4588.2	213	Nat'l Bd #:				Built:	2	007	
Manufacturer: Penfabco Ltd				_	Other: Separator		<u> </u>	0 1	
Status: In Service - MAWP Shell: 1480 Psi	@ 100	Equ °F	ip. Type: <u>Ves</u> Volume:	ssei: N/A		Cod	Service: e Stamp:		NI NI
MAWP Tube:	<u>@</u> 100 @		ght/Length:	85	in.		nsulated:	\square \square \square	
MDMT: -20 °F	RT: RT-2		e/Diameter.:		i. O.D.		PWHT:	\square Y	
Support Skirt	_		inal CNRL Inv				Manway:		
C.A.: 0.062 in.		_	Clad: N/A	J.E.			-		
Component	Mat	terial	Nomina	al Thk	Diameter OD	/ID Tu	ıbe Side	Shell Sid	le
1 Main - Shell		I/A		in.	16.000 in. O	_			
2 Top - Head	N	I/A		in.	16.000 in. O	D		\boxtimes	
3 Bottom - Head	N	I/A		in.	16.000 in. O	D		\boxtimes	
4 -									
5 -									
Static Data: Confirmed ⊠	Changed (See	Comments	s) 🗆						
Comments:									
Static data confirmed									
PSV Static Data									
		Serial #:	N/A		CRI	N: N/A			
PSV Static Data PSV -1 Tag #: N/A Model #: N/A		Serial #:			CRI	N: N/A e: N/A			
PSV –1 Tag #: N/A		_				e: N/A	ed Valve		
PSV –1 Tag #: N/A Model #: N/A	n Threaded	_			Set Pressure	e: N/A y: Unifie			
PSV –1 Tag #: N/A Model #: N/A Manufacturer: N/A		_		Blo	Set Pressurd Service Compan Last Service Date ock Valve: N/A -	e: N/A y: Unifie e: 04/24			
PSV –1 Tag #: N/A Model #: N/A Manufacturer: N/A Inlet Size & Type: 1.00 i Carseal Intact: Yes	n Threaded	Capacity: 	N/A		Set Pressure Service Compan Last Service Date ock Valve: N/A - Code Stam	e: N/A y: Unifie e: 04/24 p: Yes	1/2006		
PSV –1 Tag #: N/A Model #: N/A Manufacturer: N/A Inlet Size & Type: 1.00 i Outlet Size & Type: 1.00 i	n Threaded	Capacity: 			Set Pressure Service Compan Last Service Date ock Valve: N/A - Code Stam	e: N/A y: Unifie e: 04/24 p: Yes	1/2006		
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Insp. Company: Ma	trix_Ir	nspection	LSD:	06-21-30-04 W4	Jurisdic	tion #:	A05	59196
External Inspection Results	– VE	External In:	spection F	Performed				
		-	<u>'</u>	Comment			Action Item	Action Item
Item	N/A	Condition		(Check Status Bar or Press F1 for Help)		NCR	Integrity	Maintenance
Nameplate		Accept	Firmly af	fixed and legible				
Foundation and Supports		Accept	Welded s	skirt anchored to skid				
Anchor Bolts		Accept	Secure w	vith no deformation				
Grounding		Accept	Grounde	ed by skid				
Insulation Condition	\boxtimes	Accept	Tarp wra	pped insulation on outdoor sectior	า			
PSV		Reject	Due for s	service				
Shell Heads & Nozzles		Accept	Minor su	rface corrosion throughout surface	es			
Metal Surfaces (Paint)		Accept	Paint is c	chipped and weathered exposing r	netal			\boxtimes
Aux Equipment		Accept	Well sup	ported and secure				
Cathodic Protection			No anode	e on separator				
Alignment		Accept	Vertical a	and upright				
Flange Connections		Accept	Adequate	e thread engagement				
Pressure Gauge		Accept	-	osi: within acceptable range				
Temperature Gauge		Accept		erature gauge on separator				
Sight Glass	Ħ	Accept	Clean an	<u>-</u>		Ī		
Ladder / Platform				ers or platforms on vessel				
Leaks		No		ence of any previous process leaks	 }			
Piping from Vessel	╁┼	Accept		and adequately supported				
Previous UT Survey	Ħ	Yes	Vessel is	<u> </u>	UT C	ompan	/: N/A	
						•		
External Visual Observations	S							
At the time of inspection the separator was not in operation The outdoor section of the separator is wrapped in a black tarp type of insulation limiting the inspection for the top head and upper shell The PSV is past the service date The paint is weathered, chipped and flaking expessing the base metal to miner surface corresion with no evidence of pitting.								
	The paint is weathered, chipped and flaking exposing the base metal to minor surface corrosion with no evidence of pitting No evidence of leaks noted at the time of inspection							
A UT corrosion survey wa No UT was performed on				nspection with no significant wall lo o no access	oss recor	ded at t	he time of exa	amination
Recommendations:	Recommendations:							
Service PSV at next turna	round							
Clean and touch up the pa			sion prote	ection				
			•					



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Insp. Co. Job #: Matrix_Inspection 06-21-30-04 W4 A0559196 LSD: Jurisdiction #: Insp. Company: Internal Inspection Results - VI N/A (Not Applicable) Action Item Action Item Comment NCR N/A Condition Item (Check Status Bar or Press F1 for Help) Integrity Maintenance No Internal Inspection Carried Out Shell \boxtimes П Heads No Internal Inspection Carried Out П П Manway \boxtimes No Internal Inspection Carried Out Gasket Surfaces \boxtimes No Internal Inspection Carried Out \boxtimes No Internal Inspection Carried Out П Welds П П Refractory \boxtimes No Internal Inspection Carried Out **Heating Coils** \boxtimes No Internal Inspection Carried Out Demister Pad \boxtimes No Internal Inspection Carried Out П П \boxtimes Vane Pack No Internal Inspection Carried Out Baffles \boxtimes No Internal Inspection Carried Out П Trays \boxtimes No Internal Inspection Carried Out П П Filter \boxtimes No Internal Inspection Carried Out Internal Coating \boxtimes No Internal Inspection Carried Out Tubesheet \bowtie No Internal Inspection Carried Out П П \boxtimes Tube Bundle No Internal Inspection Carried Out \Box Internal Visual Observations No Internal Inspection Carried Out Recommendations: No Internal Inspection Carried Out



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Insp. Co. Job #: 156892 Insp. Company: Matrix_Inspection LSD: 06-21-30-04 W4 Jurisdiction #: A0559196 Firetube Static Data N/A (Not Applicable) Diameter: Not Applicable Nom Thickness: Not Applicable Bend: Not Applicable Length: Not Applicable Firetube Description: Not Applicable UT 🔲 Report#: Not Applicable ET \square Report#: Not Applicable Firetube NDE MT \square RT 🗌 Report#: Not Applicable Report#: Not Applicable Performed: PT 🗌 Report#: Not Applicable Other Report#: Not Applicable Firetube Inspection Results Action Item Action Item Comment N/A Condition **NCR** Item (Check Status Bar or Press F1 for Help) Integrity Maintenance \boxtimes П Burner No Firetube Inspection Carried Out \boxtimes Stack No Firetube Inspection Carried Out Flange (Throat) \boxtimes No Firetube Inspection Carried Out Ш **Tube Sheet** \boxtimes No Firetube Inspection Carried Out П П Hot Side \boxtimes No Firetube Inspection Carried Out П Miter \boxtimes No Firetube Inspection Carried Out Return Bend \boxtimes No Firetube Inspection Carried Out П \Box \boxtimes Supports No Firetube Inspection Carried Out П **Butt Welds** \boxtimes No Firetube Inspection Carried Out Fillet Welds \boxtimes No Firetube Inspection Carried Out Firetube Visual Observations No Firetube Inspection Carried Out Recommendations: No Firetube Inspection Carried Out



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Insp. Company:M	atrix_Inspection	LSD:	06-21-30-04 W4		Jurisdiction #:	A0559196
Vessel NDE and Final St	ummary:					
	UT Report#:			ET 🗌	Report#:	
NDE Performed:	MT Report#			RT 🗌	Report#:	
	PT Report#:			ther 🗌	Report#:	
Maxi-Trak Observations S	Summary (Summarize	inspection resul	lts Max 255 Char	acters):		
Paint is weathered expo	sing base metal to min	nor surface corr	osion			
Maxi-Trak Recommendati		arize Recomme	endations Max 25	5 Charact	ers):	
Service PSV at next tui						
Clean and touch up the	paint to aid in corrosio	n protection				
Actions Corrected at Tim	o of Incoction: (If notice		t the time of lucrosticing	note the e	arrested actions have	
Actions Corrected at Time No actions corrected at		is were corrected at	t the time of inspection	i – note the d	corrected actions here.)	
No actions corrected at	the time of inspection					
Additional Visual Observa	tions					
No additional visual obs	ervations					
Any other safety concerns	or observations from	associated equi	ipment: (for exar	nple asso	ciated piping, buildings,	pumps etc)
No safety concerns		<u>'</u>		•	11 07 07	,



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Thickness and Remaining Life Evaluation

" Must be Completed"

MUST BE COMPLETED AND RESOLVED WITH CNRL IMMEDIATELY UPON DISCOVERY OF LOW WALL THICKNESS AREAS

Step 1: Was any thickness measurement location found to be less than (Nominal WT - Corrosion Allowance)?: No

If YES, proceed to Step 2; if NO, proceed to "Crack Evaluation" and "CNRL Criticality Designation".

Step 2: Which component(s) were found below (Nominal WT - Corrosion Allowance)?

Components found below Nom - CA:

Components		
N/A - N/A		

Perform Steps 3 – 8 for each component with actual thickness less than (Nominal WT – Corrosion Allowance).

Step 3: Describe Location and Extent of Corrosion:

Components

Location and Extent of Corrosion

N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection
N/A - N/A	Not Applicable for this Inspection

Notes:

Not Applicable for this Inspection

Step 4:

- For shells and nozzles, calculate minimum required thickness (T-min) as per ASME Section VIII UG-27.
- For heads, calculate minimum required thickness (T-min) as per ASME Section VIII UG-32.

Components	T-Min
N/A - N/A	N/A



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Thickness and Remaining Life Evaluation (Continued)

Matrix_Inspection

Step 5: Is any measured thickness less than calculated minimum required thickness (T-min)? N/A

LSD:

If YES, complete Step 6 If NO, proceed to Step 7..

Insp. Company:

Step 6: Is nature and extent of pitting acceptable as per API 510? N/A

Step 7: Calculate Remaining Life as per API 510. How? (Find last reading; use nominal thickness if nothing available). Short Term Corrosion Rates and Long Term Corrosion Rates.

Components	Remaining Life (Yrs)
N/A - N/A	N/A

Step 8: Contact CNRL Integrity Coordinator to discuss above results.

- Name of CNRL contact: Not Applicable for this Inspection
- Date and time of conversation: Not Applicable for this Inspection

Summary/results of conversation:

Not Applicable for this Inspection

" Must be Completed" Crack Evaluation by Magnetic Particle or Alternative Inspection

MUST BE COMPLETED AND RESOLVED WITH CNRL IMMEDIATELY UPON DISCOVERY OF CRACK-LIKE INDICATIONS

Were any indications found to suggest the vessel contained cracks? N/A

If NO, proceed to "CNRL Criticality Designation".

If YES, Contact CNRL Integrity Coordinator to discuss results.

- Name of CNRL contact: Not Applicable for this Inspection
- Date and time of conversation: Not Applicable for this Inspection

Summary/results of conversation:

Not Applicable for this Inspection



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CNRL Criticality Evaluation – "MUST BE COMPLETED"

The CNRL In-Service Pressure Vessel Inspector MUST answer all the following questions

- Is the vessel fit-for-service? : Yes
- 2. Was the measured thickness less than the calculated minimum required thickness (T-min) for any component?: **No**
- 3. Were MT indications found?: **N/A**
- 4. Was the remaining life less than 6 years for sour service vessels or less than 10 years for sweet service vessels?: **No**
- 5. Were NCR's or Action Items generated as a result of the inspection? : **No**
- 6. Were UT readings below (Nominal WT Corrosion Allowance) found?: No

Information on CNRL Owner User Program - Criticality Designation and Required Review

RED – Vessel Inspection Results are deemed RED if one of the following occurred:

- The measured thickness was less than the calculated minimum required thickness (T-min) for any component.
- MT indications were found.
- The remaining life was calculated to be less than 6 years for sour-service vessels or less than 10 years for sweet-service vessels.

RED inspection reports must be signed off by the CNRL Chief Inspector.

YELLOW - Vessel Inspection Results are deemed YELLOW if one or more of the following occurred:

- The vessel was declared NOT fit-for-service by the 3rd Party In-Service PV Inspector.
- NCR's or Action Items were generated as a result of the inspection.
- UT readings below (Nominal WT Corrosion Allowance) were found.

YELLOW inspection reports must be signed off by the CNRL Pressure Equipment Integrity Coordinator.

GREEN - Vessel Inspection Results are deemed GREEN if all of the following are true:

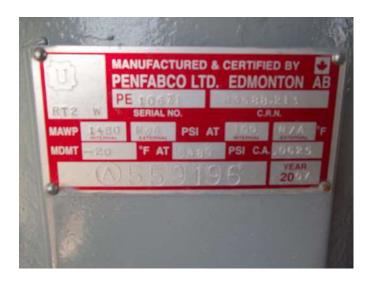
- The vessel was declared fit-for-service by the 3rd Party In-Service PV Inspector.
- UT readings below (Nominal WT Corrosion Allowance) were NOT found.
- MT indications were NOT found.
- NCR's or Action Items were NOT generated as a result of the VE inspection.

GREEN inspection reports must be signed off by the 3rd Party In-Service Pressure Vessel Inspector.

Critica	lity Designation	Green
Vehicle #:	380 Kms:	Inspector (Name): Matthew B Dickinson PESL: 601
Time In:	00:00 Time Out: 00:00 Hrs	Inspector (Signature): Matthew Dickinson 2013.01.10 API: 39483
Time In:	00:00 Time Out: 00:00 Hrs	CNRL Coordinator (Name):
Personnel:	KK	CNRL Coordinator (Signature):
Billing Info:	:	CNRL Chief Inspector (Signature): (I am in full agreement with report contents)
		(I am in full agreement with report contents)

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Equipment Photographs:



01 nameplate



02 overview indoors

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03 overview outdoors



04 surface corrosion on bottom head