

LLOYDMINSTER SOUTH BOOSTER

Facility:

FUEL GAS SCRUBBERS INSPECTION REPORT

Page 1 of 4 Rev. 1-22-09

IR100818RPLr

(Metric)

August 18, 2010

Report #:

Date:

Area Supervisor:	Al	HINZ										W.O. / C	.C.#		7727	5		
						S	TATIC	DATA										
Alberta Reg. #:				С	RN:		A-4	4059.3	2		N	ational B	oard	#:	-			
					otificat	tion #:	-				С	assificati	on:		-			
Manufacturer:	W	ATERFL	OODS	ERVICE	E & S/	ALES L	TD				Se	erial Num	ber:		0196	406		
Equip. Description	n: Co	OMPRE	SSOR F	UEL GA	AS SC	RUBBI	ER				Lo	cation (L	SD):		07-30	0-048	-01W4	1
Equipment Tag #	-			Ye	ear Bu	uilt:	200)1			C	ompany l	.D.#		-			
Province Installed	: AL	BERTA				ation #:	-				SI	Skid / Building #:			-			
Nameplate Attach	ned: Y	S		Le	egible:		YES	S			U	U1A Available:			NO			
MAWP: 1	793	Кра	Diamet	er: O.D.		219	n	mm F	Radiogra	phy	:	NO Efficienc			ncv: %			
MAWT:	-	°C	Diamet			194	n		Stress R			NO		Code Stamp: -				
MDMT:	-29	°C	Length:			1143	n		xt. Coa			YES		sition		VE	RTIC	AL
Capacity:	-	m3	Overall			1524	, n		nsulated			NO	Su	pport	:	5	KIRT	
Internal Coating:	NO	Type:					Thick	ness:	-	m	m M	anway:	1	NO	Size:		-	mm
Internal Cladding:		Type:		-				ness:	-	m		est Press		-	-			kpa
Inspection Port:	YES	Size:	203	mm	51	mm		tion: #1		T	OP HE			‡2	ВС	TTO	M SHE	
		T	уре			N	<i>laterial</i>	1			Th	ickness			Corr	rosion	Allow	ance
SHELL			-				N/A				12.7			mm	2011	-	7 200 11	mm
TOP HEAD									28.5	28.58 mm		- m		mm				
BOTTOM HEAD			PTICAL			SA	-516-7	70			12.7		-	mm		-		mm
Nozzle Description I.D. # NPS Flange Type Material Thickness Length							ath											
						Rat												3
Inlet			-	51	mm	150	#	RF\			SA-	106B			.5	mm	51	mm
Outlet	-			51	mm	150 " KEVVIN						106B			.5	mm	51	mm
Drain			-	25	*** 150 # RFW			WN	SA-234-WPB				4	.5	mm	254	mm	
						PR	COCES	S DATA	1									
Product Description	on:	NAT	TURAL (GAS								Servi	ce:		SWEET		-	
Operating Pressu		379			Kpa Operating Temperatu				ature:	•	28			°C				
							STAT	IC DAT	A									
Tag Number:	(-)					cturer:		TAYLO										
Company I.D. #:					Model # / Type: T-8200-1									ment#				
Serial Number:	82344-	35			RN:			OG1316							Stamp:		UV	NB
Inlet Size:	25	mm	Ratin		-	#		ressure	9:	414		Kpa			Pressur			Kpa
Outlet Size:	25	mm	Ratin	g:	-	#	Capa			262	!	SCFM	S	Servic	e Date:		06/2	.010
Location of PSV:	COMP	RESSOF	RFUEL	GAS S	CRUB	BER IN	ILET P	PIPING										
								V DETA										
Inspection Reason: CODE INSPECTION					Inspections Required:			VE		UT								
Inspection Test Plan: -						ion Typ			VE		UT							
Last Inspection Date: -						spection			VE		UT							
Next Inspection D	ue:	20	015	0	utstar	nding R			NO	\perp	RBI (ategory:	/	Α	В	C		D
Internity Otal	0111	TABLE	FOR C	NAITIAL.	ED 6			STATUS		- 1 -			C.F.					
Integrity Status: SUITABLE FOR CONTINUED SERVICE Inventory Status: ISF																		
This IR completes a thorough inspection; reschedule as indicated. YES Partial inspection; do not reschedule.																		



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(Metric)

Facility: LLOYDMINSTER SOUTH BOOSTER Date: August 18, 2010 Report #: IR100818RPLr

INSPECTION SUMMARY

A thorough inspection to verify the equipments integrity was done by VE and UT.

There were no rejectable defects observed at this time; the vessel can be recommended fit for service.

There are no recommendations to be made at this time.

There were no repairs performed that were related to this inspection.

No NCR's were issued at this time.

No IDR's were issued at this time.

There was no internal inspection performed at this time.

There was no internal NDE performed during this inspection.

The nameplate is in tact and legible.

The instrumentation and its tubing are in good working condition with no detectable leaks.

The pressure retaining welds are in tact with no evidence of deterioration or visible cracking.

The vessel support is securely welded to the skid floor.

There is adequate access to the bottom head.

The vessel's ground connection is through the skid's ground rod.

The vessel is protected by a PSV that is in fair condition.

The vessel is painted with no notable coating defects.

The piping and piping attachments are in fair condition with no detectable leaks.

The piping clamps and supports are tight and in good condition.

The piping bolt up grading is B7 and 2H.

The attached piping is painted with no notable defects.

RECOMMENDATIONS

REPAIRS COMPLETED

INSPECTION OBSERVATIONS

NON COMPLIANCES ISSUED

INSPECTION DEFICIENCIES ISSUED



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(Metric)

Facility:

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Date:

August 18, 2010

Report #:

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			EXTERNAL VISU	AL INSPE	CTION						
ID	Description		Condition	Loca	tion NCF	Comments					
	Deberger		0011011011011	2000							
GENE											
V2	Corrosion Leaks		No			Acceptab.					
V3 V7	Heads		No Fair			Acceptab. Acceptab.					
V9	Electrical Ground	4	Fair			Acceptab					
V11	Coating/Painting	•	Fair			Acceptab					
V13		3	Fair			Acceptab					
V14	Shell		Fair			Acceptab					
CIIDD	SUPPORTS										
V24			Fair			Acceptab:	le				
V24	baddle/ bkilt		rair			Acceptab.					
	ECTIONS										
	Nozzles		Fair			Acceptab:					
V37			Fair			Acceptab.					
V38	Flanges		Fair			Acceptabl	le				
RELI	EF DEVICE										
V51	Other (Please Exp	olain)	Fair			Acceptab.	le				
	Corrosion	•	No			Acceptabl					
V53	Leaks		No			Acceptabl	le				
V54	Restricted Inlet/	Outlet	No		Acceptable						
			EXTERN	ALNDE							
			EATERIY	AL NUE							
NDE inspections were performed by Silvertip Inspection Services Ltd. Some of the UT values recorded on the vessel are slightly below nominal. The UT values recorded on the drain nozzle are slightly below nominal. See the attached NDE reports for more detailed information.											
			INTERNAL VISUA	AL INSPE	CTION						
INTERNAL NDE											
			PRESSUR								
Test (Completed: -	Test Pressure:		est Accepta		Test Report #:	-				
	1.0		SPECTOR CERTIFICAT			1 24 4	in and the state of the t				
I, the undersigned, certify that the equipment stated above has been inspected in accordance with the assigned task list and that the statements within this report are correct and represent my inspection findings.											
	External Inspector's N		Inspector's Certifica			Signature:	Date:				
REMI LACASSE			API 510		1/2		AUGUST 18, 2010				
Internal Inspector's Name:			Inspector's Certifica	tion:	Inspector's	Signature:	Date:				
			-				-				
CHIEF OR LEAD INSPECTOR'S ACCEPTANCE AND SCHEDULE CONFIRMATION											
Inspector's Name: Inspector's Certification: Inspector's Signature: Date:							Date:				
RAY TRACHUK											
Vess	sel Inspection Interval:	Leave "As Is":	Change to:	PSV Inspe	ection Interval:	Leave "As Is":	Change to:				
	5 Years		Years	4	Years		Years				
	Only: Report Entered Static Data Ver	d to SEQA Databa	ase by:			Date:					



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NAMEPLATE



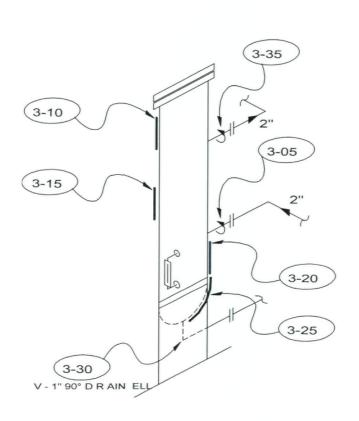
OVERALL VIEW

FUEL GAS SCRUBBER UT REPORT

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FACILITY:		LLOYDI	OYDMINSTER SOUTH BOOSTER					DATE:	AUGI	JST 18, 2	2010	REPORT #	t:	IR10081	8RPLr	
AREA SUPERVISO	OR:	AL HINZ	NZ					W.O. / C.C				.#	77275			
							STATIC	DATA								
Alberta Reg. #: CRN:					A-40	A-4059.32 National Bo				ard #:	ard #: -					
Equipment Number	r:	6204556	57		N	lotification #:	-				Vessel Clas	s:		100		1.77
Manufacturer:	1.0	WATER	FLOOD SERVI	ICE & SAL	ES LTE)					Serial Numb	per:	01964	106	c	
Equip. Description:		COMPR	ESSOR FUEL	GAS SCR	UBBER	?					Location (LS	SD):	07-30	-048-01V	14	71 1
Equipment Tag #: -				T Y	ear Built:	2001				Company I.	D.#:	-				
Province Installed:		ALBER'	ΓΑ		R	egistration #	: -				Skid / Buildi	ng #:	-			
MAWP:	1793	Kpa	Diameter: 0	O.D.	219	mm	Radiograph	ny:	NO	Nozzl	e Rating: -	#	Po	sition:	VERTICAL	
MAWT:	93	°C	Diameter: I	.D.	194	mm	Stress Reli		NO	Code	Stamp: -		Su	pport:	SKIRT	
MDMT:	-29	°C	Length: S	/S	1143	mm	External Co	pating:	YES	Capa	city:	m3	Ins	sulated:	NO	
Internal Coating:	NO		Thickness:			mm	Internal Cla	dding:	NO	Type:	-		Th	ickness:		mm
			•	Materia	I				Thickne	SS			Cor	rosion All	owance	
Shell			N/A					12.70			mm				mm	
Top Head	-			SA-105	N			28.58			mm				mm	
Bottom Head		1.1		SA-516-	70			1	2.70		mm					mm
Nozzle Description	n		I.D. #	NF	PS	Flang	e Rating		pe		Material		Thickn	ess	Leng	th
Inlet			-	51	mm	150	#	RF	٧N		SA-105N		5.5	mm	51	mm
Outlet			-	51	mm	150	#	RF	ΝN		SA-105N		5.5	mm	51	mm
Drain			-	25	mm	150	#	RF	ΛN		SA-105N		4.5	mm	254	mm
							PROCESS	DATA								
Product Description	1:					NATU	RAL GAS				Servi	ce: Si	WEET			
Operating Pressure	2:			379		Kpa	Oper	ating Tem	perature:	,		28	3			°C





TML	TML LOCATION							
INIL	ITEM DESC							
3-05	2" INLET NOZZLE	B-T						
3-10	TOP SHELL	T-B						
3-15	MID SHELL	T-B						
3-20	BOTTOM SHELL	T-B						
3-25	BOTTOM HEAD	T-B						
3-30	V - 1" 90° DRAIN ELL	T-B						
3-35	2" OUTLET NOZZLE	B-T						

CHNESS	DED
C.A	MIN.
N/A	N/A
	C.A N/A N/A N/A N/A N/A N/A

-	THICKNESS
	@ LOW PNT
	5.3
Γ	12.6
Γ	12.7
Г	13.2
Г	11.0
Γ	3.6
Г	5.3
-	

BELOW	BELO
NOMINAL	MINIM
0.2	-
0.1	-
-	-
-	-
1.7	-
0.9	-
0.3	-