

## Ultrasonic Inspection Report

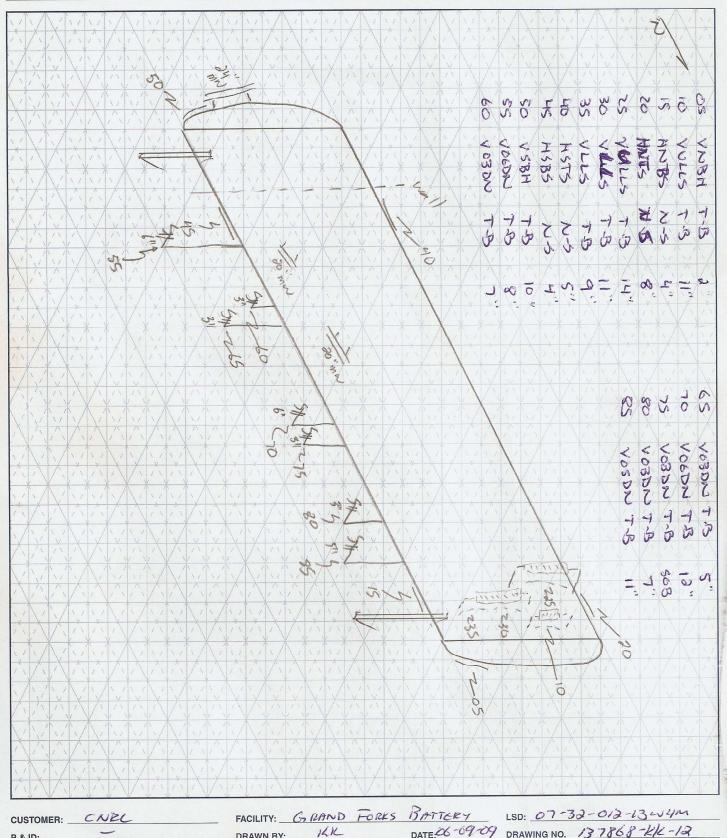
Report #: 137868-KK-12
Date: 06/10/2009
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IRISNDT 137868

Cliante	CNDI			PO/Job #:		N/A		Conta	at.			
	ient: CNRL			r O/J00 #1		IVA						
Job location: Grand Forks					Tel:							
<b>07-32-012-13W4M</b> Fax:												
Procedure(s): IRISNDT 19.0 UT Thickness Corrosion Survey / Client specifications												
Code(s): ASTM SE 797												
T. T. 1	10000	10 E 111	<b>T</b> 7				3.6 1	C 1 6				
Item Inspected:							Material:					
Method:		et 🗌 Immers	sion 🔲 C	other:	Surface Temp (C): $\square < 5^{\circ} \square > 5^{\circ} / < 60^{\circ} \square > 60^{\circ}$							
Type:	□ P/E	☐ T/T  ☐ D	ual 🔲 A	utomated	☐ TOFD	S	canning Sur	face: 🛛	$\mathrm{OD} \ \ \square  \mathrm{ID}$	Other:		
Application: ☐ Laminar ☐ Shear Wave ☐ Volumetric ☐ Thickness Surface Condition: Good												
						DMS 2			ent Ser. #: <u>0</u>			
Calibration:		Nov. 21, 20		Reference l				IR	ISNDT #: <u>3</u>			
Calibration Blo	ock(s):	Type: Step	Wedge -	· I IRIS	NDT #: _3	32983	Type:		· ·	IRISNDT #: _		
		Type:		IRIS	NDT #:		Type:			IRISNDT #:		
Couplant: Bi	rand: Son	otest	Type:	1451		Cable: Type: Dual Length: 36"					36"	
1						1					•	
		Probe				Si	ETTINGS - dI	3	RANG	E - X INCHES	MM	
Manufacturer	Туре	Serial #	Angle	Frequency	Size	Reference	Scanning	Transfer	Screen	Skip Value	Beam	
						Level	Level	Value	Size		Travel	
Krautkramer	Dual	01MRC3	0	8.0 MHz	0.312	48	+6 dB	N/A	1.0	N/A	N/A	
										1		
				In	NSPECTIO	N DETAILS						
Caamar				_		-						
Scope:												
As per	r client red	quest and spe	cification	s: an ultraso	onic corre	sion thickne	ss survev wa	s performe	ed on A2698	238 Free Wat	er Knock-	
Out.		1										
Isome	etric sketch	ies were crea	ted, and a	are attached	to this re	port for refe	rence to thic	kness mea	surement lo	cations.		
Results:												
	ickness va	lues recorded	l were fou	ınd to be acc	ceptable a	t the time of	the inspecti	on.				
					•		•					
_		_								_		
See at	tached pa	ges for compl	ete thick	ness values v	with refer	encing attacl	iments for t	hickness m	easurement	location.		
Assistant:					Technician: Kris Katryniuk							
CGSB SNT UT Level: I III No.#:					□ CGSB    □ SNT UT Level:    □ I    □ III    □ III    No.#: 12095							
						<b>-</b>   '		to A	Digitally signed by Kris Kri DN: CN = Kris Katryniuk, Date: 2009.11.13 16:56:2		12073	
Unit:	Km:		1 rav	el Time:		Signatur	e:		Date: 2009.11.13 16:56:2	5-07'00'		
Start:	Stop:		<u> </u>	Vork hrs:								
OT Meal	Subsis	tence required	7	Γotal hrs:	_	Client Na	ime:					
Consumables: (	Cold surfs	ice counlant	- isome	tric paner		Signat	ure:					
	- J. W. Delli	coupinn		paper		Jigina						
						<u> </u>						
Edmonton	(780) 437-4		Fort McMur	•	743-1536		Cold Lake	(780) 594-1		Mailing Add	1	
Calgary	(403) 279-6		Grande Prair	, ,	532-2283		Red Deer	(403) 347-1		5311 – 86 St	1	
Nisku Barrhead	(780) 955-7 (780) 674-3		High Level Lloydminste	. ,	841-0470 875-6455		Tulsa, OK Houston, TX	(918) 446-8 (281) 476-4		Edmonton, Al T6E 5T8	l l	



## CORROSION INSPECTION SERVICES

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CUSTOMER: CNEC		1: GRAND FORKS BY: ILK			-012-13-24M -7868-KK-12
VESSEL INFORMATION: FE	CE OU TIETE TO CE	70 1/30	100	500 - 0 0	
Equip. No.	Pro.Reg.No (A) 126982 Size: 120 10 1003 36	038 C.R.N. K 325	Serial No	P90-003-A	_ Yr. Inst
- INCHA HARE	3 . 1201 2 2	/ /	DONNER Indus	ties	Vr Blt 1991
Code/Div.	Size: NO ID (OD)	Manufacturer:	FRUCESS THOV	2	11.01.
C. Stamp	Service:	PWHT: J.E.:	Radiography:	Ict-2 Insi	ulated: Porticel.
HEAD: Top Mat'l 5/6つ0		Top C.AO6 2 Ma	L: aterial <u>576-70</u>	Nominal 375	_ C.A
Btm Mat'l	Btm Nom:607''	Btm C.A			
BOOT:		CHAN	NEL:		