

Inlet Isolation Valve: Yes No If Yes - Is there a procedure documented for control of lock out? Yes No Are the Valves Locked Out? Yes No N/A Comments:		Р	IM Sales Order #:	133-	03	Date:	J	2024, une 06	
Facility: Gunning Beiseker, AB Vessel Name: Flash Separator Location (LSD): Beiseker, AB Equipment Number: V-520 Status: In-Service Inspection on Operating Equipment \rightarrow Parating Equipment Equipment \rightarrow Parating Equipment \rightarrow Parating Equipment \rightarrow Parating Equipment		PI	M Work Order #:	IS-	01	Equipment #:	F		
Facility: Gunning Beiseker, AB Vessel Name: Flash Separator Location (LSD): Beiseker, AB Equipment Number: V-520 Status: In-Service Inspection on Operating Equipment \rightarrow Parating Equipment Equipment \rightarrow Parating Equipment \rightarrow Parating Equipment \rightarrow Parating Equipment	Client: Gunning Servi								
Location (LSD): Belseker, AB Equipment Number: V-520 Status: In-Service Inspection on Operating Equipment Yes No Remains In-Service: Yes No Type of Inspection: Image: Service Inspection on Non-Operating Equipment Yes No Remains In-Service: Yes No Jurisdictional In-Service Inspection: Interval Repair/Atteration Image: Service Inspection: Yes No Jurisdictional A193907 CRN: F8805.2 F8805.2 Manufacturer: Thermo Design Engineering Ltd. Year Built: 1986 Vessel Serial Number: 332 (fameterial: SA-516-70 Head Thickness: 0.500 '' (12.7 mm) SA-516-70 Tube diameter: n/a '' Tube Material: n/a Tube diameter: n/a '' Tube Inspective: Shell: 0.90 '' (12.4 mm) MAWP psi 240 psi (2896 kPa) Operating Pressure: Shell: n/a '' MAWP psi Tube: n/a '' Tube Sint Frideery (frideory (frideory frideory fri				Vessel N	ame:	Flash Senara	tor		
Status: In-Service Inspection on Operating Equipment Yes No Number: Orientation: Vertical In-Service Inspection: Image: Service Inspection: Image: Service Inspection: Image: Service Inspection: Yes No Jurisdictional Interval Repair/Alteration Repair/Alteration Jurisdictional A193907 CRN: F8805.2 Manufacturer: Thermo Design Engineering Ltd. Year Built: 1986 Vesel Serial Number: 332 (diameter x length-estimate): 24" x 130" Shell Thickness: 0.500 " (12.7 mm) Shell material: SA-516-70 Head Thickness: 0.490 " (12.44 mm) Head material: SA-516-70 Tube diameter: n/a " Tube length: n/a Tube diameter: n/a " Tube length: n/a Tube diameter: n/a " Channel material: n/a MAWP psi Tubes: n/a " Tubes: n/a " MDMT -45 °C Tubes: n/a Fersure: Safe Code Parameters: SASE (CVIII, DIV 1 Code Case: Safe No<									
In-Service Inspection on Non-Operating Equipment ✓ Yes No In-Service: Yes ✓ No Type of Inspection: Ø Baseline Interval Repair/Alteration Jurisdictional Registration Number: A193907 CRN: F8805.2 Manufacturer: Thermo Design Engineering Ltd. Year Built: 1986 Stell Thickness: 0.500 ° (12.7 mm) Shell material: SA-516-70 Yes Ø.490 ° (12.44 mm) Head material: SA-516-70 Tube diameter: n/a ° Tube Material: n/a Channel material: SA-516-70 Tube Material: SA-516-70 Tube Material: n/a Tube diameter: n/a ° Tube diameter: n/a ° Channel material: n/a Tubes: n/a ° MAWP psi Tubes: n/a Tubes: n/a Tubes: n/a <td coo<="" td=""><td></td><td></td><td></td><td>. </td><td>int Number.</td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td>. </td> <td>int Number.</td> <td></td> <td></td> <td></td>				.	int Number.			
Type of Inspection: □ Interval Repair/Alteration Jurisdictional Registration Number: A193907 CRN: F8805.2 Manufacturer: Thermo Design Engineering Ltd. Year Built: 1986 Manufacturer: Thermo Design Engineering Ltd. Year Built: 1986 Stree 0.500 ° (12.7 mm) Shell Thickness: 0.500 ° (12.4 mm) Head Thickness: 0.490 ° (12.44 mm) Head material: SA-516-70 Tube Wall Thickness: n/a ° Tube Material: n/a Tube diameter: n/a ° Tube Material: n/a Tube diameter: n/a ° Channel material: n/a Design Pressure: Shell: 420 psi (2866 kPa) Operating Pressure: Shell: 0 psi MAWP psi Tubes: n/a Tubes: n/a Tubes: n/a Momor -45 °C Tubes: n/a Tubes: n/a °E No Code Parameters: Shell: 100 °F (38°C) Operating Temperature: Shell: n/a °E Momor -45 °C Tubes: n/a Tubes: n/a<	Status: In-Service Inspection on C	perating Equipmen	t Yes 🗸	No Number:		Orientati	on:	Vertical	
Image: Second	In-Service Inspection on N	Ion-Operating Equip	oment 🗹 Yes 🗌	No Remains	In-Service:	Yes	\checkmark	No	
Jurisdictional Registration Number: A193907 CRN: F8805.2 Manufacturer: Thermo Design Engineering Ltd. Year Built: 1986 Stee (diameter x length-estimate): 24" x 130" Shell Thickness: 0.500 " (12.7 mm) Shell material: SA-516-70 Head Thickness: 0.490 " (12.44 mm) Head material: SA-516-70 Tube Wall Thickness: 0.490 " (12.44 mm) Head material: SA-516-70 Tube Wall Thickness: n/a " Tube knetrial: SA-516-70 MAWP psi Tube: n/a " Tube knetrial: N/a MAWP psi Tube: n/a " Tubes: n/a MAWP psi Tube: n/a Tubes: n/a "F MDMMT -45 °C Tube: n/a Yes	Type of Inspection:	Baseline	Interval	Re	pair/Alteration				
Registration Number: A193907 CRN: F8805.2 Manufacturer: Thermo Design Engineering Ld. Year Built: 1986 Vessel Serial Number: 332 Size 24" x 130" Shell Thickness: 0.500 " (12.7 mm) Shell material: SA-516-7 Head Thickness: 0.490 " (12.4 mm) Head material: SA-516-7 Tube Wall Thickness: n/a " Tube Ingith: n/a Tube diameter: n/a " Tube Ingith: n/a Tube diameter: n/a " Tube: n/a AMAWP psi fube:: n/a " Tube: n/a Besign Pressure: Shell: 100 °F (38°C) Operating Pressure: Shell: n/a "F MDMT -45°C Tubes: n/a " Tube:: n/a "F MDMT -45°C Tubes: n/a "F State No Cororsion Allowance: 0.0625°(1.59 mm) Code Case: Joint efficiency (if on nameplace): State Manufacture: NO PSV Size Size Size Capacity Tag Gode Samp : In System	lurisdictional		1.0 NAMEP	LATE DATA					
Size Size (diameter x length-estimate): 24" x 130" Shell Thickness: 0.500 " (12.7 mm) Shell material: SA-516-70 Head Thickness: 0.490 " (12.44 mm) Head material: SA-516-70 Tube Wall Thickness: n/a " Tube Material: n/a Tube Wall Thickness: n/a " Tube Material: n/a Tube diameter: n/a " Tube length: n/a Channel Thickness: n/a " Channel material: n/a Design Pressure: Shell: 420 psi (2896 kPa) Operating Pressure: Shell: n/a " MAWP psi Tubes: n/a Tubes: n/a Tubes: n/a Design Temperature: Shell: 100 "F (38"C) Operating Temperature: Shell: n/a "F MDMT -45 "C Tubes: n/a Tubes: n/a Tubes: n/a Code Parameters: SME, SEC VIII, DIV I Code Case: Joint efficiency (if on nameplate): 85% Corrosion Allowance: 0.0625" (1.59 mm) Manufacturer / Model/ Serial # & Size Set Pressure Capacity (sfm) CRN		,		CRN:	F8805.2				
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Tube Wall Thickness: n/a " Tube Material: n/a Tube diameter: n/a " Tube length: n/a Tube diameter: n/a " Tube length: n/a Channel Thickness: n/a " Channel material: n/a Design Pressure: Shell: 420 psi (2896 kPa) Operating Pressure: Shell: 0 psi MAWP psi Tubes: n/a Tubes: n/a Tubes: n/a Design Pressure: Shell: 100 °F (38°C) Operating Temperature: Shell: n/a °F MDMT -45 °C Tubes: n/a Tubes: n/a X-ray: Spot RT3 Heat treatment: Y es No Code Parameters: ASIME, SEC VIII, DIV 1 Code Case: Joint efficiency (if on nameplate): 85% Corrosion Allowance: 0.0625" (1.59 mm) Manufacturer / Model/ Serial # & Size Size (psi) Capacity Yes No Manufacturer: NO PSV Manufacture: No PSV Number (s) Set Date Madel:			· · · · · · · · · · · · · · · · · · ·						
Tube diameter: n/a " Tube length: n/a Channel Thickness: n/a " Channel material: n/a Design Pressure: Shell: 420 psi (2896 kPa) Operating Pressure: Shell: 0 psi MAWP psi Tubes: n/a Tubes: n/a Tubes: n/a Design Temperature: Shell: 100 °F (38°C) Operating Temperature: Shell: n/a °F MDMT -45 °C Tubes: n/a Tubes: n/a X-ray: Spot RT3 Heat treatment: Yes No Code Parameters: ASME, SEC VIII, DIV I Code Case: Joint efficiency (if on nameplate): 85% Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Manufacturer / Model/ Serial # & Size Set Pressure Capacity Tag Manufacturer: NO PSV Set Pressure Capacity Number (s) Set Date Manufacturer: NO PSV Instructure: Instructure: Non Code Vent to Relief Syste Gode Stamp: On Vessel In System Tube Side	Head Thickness:		12.44 mm)	Head materia	l: SA-516-70				
Channel Thickness: n/a ' Channel material: n/a Design Pressure: Shell: 420 psi (2896 kPa) Operating Pressure: Shell: 0 psi MAWP psi Tubes: n/a Tubes: n/a Tubes: n/a Design Temperature: Shell: 100 °F (38°C) Operating Temperature: Shell: n/a °F MDMT -45 °C Tubes: n/a Tubes: n/a X-ray: Spot RT3 Heat treatment: Yes No Code Parameters: ASME, SEC VIII, DIV I Code Case: Joint efficiency (if on nameplate): 85% Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Manufacturer / Model/ Serial # & Cites Size Set Pressure Capacity Cran Number (s) Set Date Manufacturer: NO PSV (psi) (psi) CRN Number (s) Set Date Manufacturer: NO PSV (psi) In System Tube Side Open to Atmosphere No	Tube Wall Thickness:			Tube Materia	l: n/a				
Design Pressure: Shell: 420 psi (2896 kPa) Operating Pressure: Shell: 0 psi MAWP psi Tubes: n/a Tubes: n/a Design Temperature: Shell: 100 °F (38°C) Operating Temperature: Shell: n/a °F MDMT -45 °C Tubes: n/a Tubes: n/a X-ray: Spot RT3 Heat treatment: ✓ Yes No Code Parameters: ASME, SEC VIII, DIV I Code Case: Joint efficiency (if on nameplate): 85% Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Manufacturer / Model/ Serial # & Size Set Pressure Capacity CRN Tag Manufacturer: NO PSV Inlet X outlet) (psi) Csfm) CRN Number (s) Set Date Manufacturer: NO PSV Inlet Isolation Valve: On Vessel In System Tube Side Open to Atmosphere Non Code Vent to Relief System Location of PRV: On Vessel In System Tube Side Open to Atmosphere No No Inlet Isolation Valve:	Tube diameter:	n/a "		Tube length:	n/a				
MAWP psi Tubes: n/a Tubes: n/a Design Temperature: Shell: 100 °F (38°C) Operating Temperature: Shell: n/a °F MDMT -45 °C Tubes: n/a Tubes: n/a X-ray: Spot RT3 Heat treatment: Yes No Code Parameters: ASME, SEC VIII, DIV I Code Case: Joint efficiency (if on nameplate): 85% Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Manufacturer / Model/ Serial #& Size Size Set Pressure Capacity Set Date Manufacturer: NO PSV (scfm) CRN Number (s) Set Date Madel:	Channel Thickness:	n/a "		Channel mate	rial: n/a	1			
Design Temperature: Shell: 100 °F (38°C) Operating Temperature: Shell: n/a °F MDMT -45 °C Tubes: n/a Tubes: n/a X-ray: Spot RT3 Heat treatment: ✓ Yes No Code Parameters: ASME, SEC VIII, DIV I Code Case: Joint efficiency (if on nameplate): 85% Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Manufacturer / Model/ Serial # & Size Set Pressure (Inlet x Outlet) Capacity (scfm) Tag Number (s) Set Date Manufacturer: NO PSV Inlet x Outlet) In System Tube Side Open to Atmosphere Non Code Vent to Relief Syste Inlet Isolation Valve: Yes No If Yes - Is there a procedure documented for control of lock out? Yes No Inlet Isolation Valve: Yes No N/A Comments: Yes No	Design Pressure: Shell:	420 psi	(2896 kPa)	Operating Pre	ssure:	Shell:	C) psi	
MDMT -45 °C Tubes: n/a X-ray: Spot RT3 Heat treatment: Yes No Code Parameters: ASME, SEC VIII, DIV I Code Case: Joint efficiency (if on nameplate): 85% Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Code Stamp Size Set Pressure Capacity Tag Number (s) Set Date Manufacturer: NO PSV Size Set Pressure Capacity (scfm) CRN Number (s) Set Date Model: Serial #: Set Set Set Set Pressure Capacity Number (s) Set Date Model: On Vessel In System Tube Side Open to Atmosphere Non Code Vent to Relief System Inlet Isolation Valve: Yes No No Model Yes No No LPSK/searacity unstified to dozion Yes No N/A Comments: Yes No	MAWP psi Tubes:	n/a				Tubes: n/a			
X-ray: Spot RT3 Heat treatment: Yes No Code Parameters: ASME, SEC VIII, DIV I Code Case: Joint efficiency (if on nameplate): 85% Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Manway: Yes No Code Stamp Tag Manufacturer / Model/ Serial # & Size Set Pressure Capacity CRN Number (s) Set Date Manufacturer: NO PSV (net x Outlet) (psi) (scfm) CRN Number (s) Set Date Model:	Design Temperature: Shell:	100 °F	(38°C)	Operating Ter	nperature:	Shell:	n/a	°F	
Code Parameters: ASME, SEC VIII, DIV I Code Case: Joint efficiency (if on nameplate): 85% Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Manufacturer / Model/ Serial # & Size (Inlet x Outlet) Set Pressure (psi) Capacity (scfm) CRN Tag Number (s) Set Date Manufacturer: NO PSV Model: (scfm) CRN Number (s) Set Date Model: Serial #: Code Stamp: On Vessel In System Tube Side Open to Atmosphere Non Code Vent to Relief System Location of PRV: On Vessel In System Tube Side Open to Atmosphere No No Inlet Isolation Valve: Yes No N/A Comments: Yes No Ke the Valves Locked Out? Yes No N/A Comments: Yes No	MDMT -45 °C Tubes:	n/a				Tubes: n/a			
Corrosion Allowance: 0.0625" (1.59 mm) Manway: Yes No Manufacturer / Model/ Serial #& Size (Inlet x Outlet) Capacity (scfm) CRN Tag Number (s) Set Date Manufacturer: NO PSV Model: Set Orteo Capacity (scfm) CRN Number (s) Set Date Manufacturer: NO PSV Model: Set Orteo Tag Model: Serial #: Code Stamp: Tube Side Open to Atmosphere Non Code Vent to Relief System Location of PRV: On Vessel In System If Yes - Is there a procedure documented for control of lock out? Yes No Inlet Isolation Valve: Yes No N/A	X-ray: Spot RT3			Heat treatme	nt: 🗸 Yes	No			
2.0 PRESSURE SAFETY VALVE NAME PLATE DATA Manufacturer / Model/ Serial # & Size Set Pressure Capacity Tag Manufacturer: NO PSV (Inlet x Outlet) (psi) CRN Number (s) Set Date Manufacturer: NO PSV	Code Parameters: ASME, SEC VIII,	DIV I	Code Case:	Joint efficienc	y (if on nameplate)):	8	35%	
Manufacturer / Model/ Serial # & Code Stamp Size (Inlet x Outlet) Set Pressure (psi) Capacity (scfm) Tag Number (s) Set Date Manufacturer: NO PSV	Corrosion Allowance: 0.0625'	(1.59 mm)		Manway:	Yes	No			
Code Stamp (Inlet x Outlet) (psi) (scfm) CRN Number (s) Set Date Manufacturer: NO PSV			SSURE SAFETY VA		PLATE DATA				
Manufacturer: NO PSV Model:					CDN		•	Cat Data	
Model:		(Inlet x Outlet)	(psi)	(scim)	CKIN	Num	Jei (5)	Set Date	
Code Stamp: Image: Code Stamp: Code Stamp: Image: Code Stamp: Cod									
Location of PRV: On Vessel In System Tube Side Open to Atmosphere Non Code Vent to Relief System Inlet Isolation Valve: Yes No If Yes - Is there a procedure documented for control of lock out? Yes No Are the Valves Locked Out? Yes No N/A Comments:	Serial #:								
Location of PRV: On Vessel In System Use Side Atmosphere Non Code Vent to Kener System Inlet Isolation Valve: Yes No If Yes - Is there a procedure documented for control of lock out? Yes No Are the Valves Locked Out? Yes No N/A Comments: Comments:	Code Stamp:								
Inlet Isolation Valve: Yes No documented for control of lock out? Yes No Are the Valves Locked Out? Yes No N/A Comments: Comments:	Location of PRV:	On Vessel	🗌 In System	Tube Side		🗌 Non C	ode	Vent to Relief Syste	
Is DEV capacity working to design	Inlet Isolation Valve:	Yes	No		•	t?		No	
Is DEV capacity working to design	Are the Valves Locked Out?	Yes	🗌 No 🗌 N/A	Comments:					
condition?	Is PSV capacity verified to design	Yes	 No						



PIM Sales Order #:	133- 03	Date:	2024, June 06
PIM Work Order #:	IS- 01	Equipment #:	Flash Separator
			A193907

	3.0 SI	ERVICE CONDITIO	NS INDI	CATE ALL THAT	T APPLY			
Sweet	Sour	Process Oil		Gas	Water		Low Temp	
Amine	LPG	Condensate		🗌 Air	🗌 Glycol		Thermal Fl	uid
Other (Describe):	Unknown							
		4.0 F	PIPING D	ΑΤΑ				
Primary Flange Rating:	30	0	ASME	B31.1	B31.3 🗸	B31.5 🗌	Other	Normal
Piping Design Pressure:		🗸 psi 🗌 kpa	Piping O	peration Pressu	re:		0 🗸 psi	kpa
Nearest Vessel Design F	Pressure:	🗸 psi 🗌 kpa	Diamete	ers Welded:				
Comments: No Pipi	ng with vessel		Diamete	ers Threaded:	No Pipi	ing.		

Fill out all forms as completely as possible. <u>All information</u> is important! Use back of sheets to record additional information or sketch if required.

G - Good	F - Fair				P = Poor		N/A = 1	Not Applicable	
External Inspection Items		G	F	Р	N/A		C	OMMENTS	
NDE methods UT/MPI report done on v Chief Inspection to review methods	ressel	1					See UT R	eport Attach	ed
External Condition Assess paint, record and depth of corrosion or damage.	location, size	1					e Drilled I Tale Drilled		
Nozzle Assess and record paint look for engagement and corrosion, verify / inspo Record any damage, deflection, etc.			\searrow			2 Flange fac	es have minor	rust on them.	
Leakage Record Report leakage at flang joints, weep holes on repads, etc.	es, threaded					Threaded th	nreads have so	me rust. Threads loo	k ok.
Saddle Record corrosion, buckling, dent vessel surface area near supports and at Verify no signs of leakage at attachment ground wire attached.	tachment welds.	1				Saddle look	s good.		
Anchor Bolts Hammer tap to ensure sec Record corrosion, cracking in threads or deformation.					_				
Concrete Foundation Record cracks, spa	alling, etc.				\checkmark				
Gauges Verify gauges are visible, workir and suitable for range of MAWP/ Temp.	ıg, no leakage,				7				
External Piping Verify pipe is supported. supports, shoes, etc. in place). Record a overload, deflection, verify paint conditi corrosion, studs and nuts, etc.	ny structural		7			Only attach	ment threadec	d and two flanges.	



	PII	VI Sale	es Orde	er #:	133-	03	Date:	June 06 ,2024
	PIN	/I Wor	rk Orde	er #:	IS-	01	Equipment #:	Flash Separator A193907
External Inspection Items		G	F	Р	N/A		СОММ	ENTS
Valving Verify/record visible leaks properly supp	orted							
and CSO/CSC.					1			
PSV Verify set is at or below vessel MAWP. Disch piping is greater to or equal to valve outlet and is properly supported / routed. Verify PSV seals/ ta Status of block valves, check car seal log.	_				7			
PSV Verify properly installed and is supported adequately for the discharge loads.					7			
Insulation/Cladding Verify condition around appurtenances no damage present, and there is r ingress of moisture.	סו				1			
Ladder/Platform Describe condition, supports Ha and compliance.	azards				1			
Recommendations or	correctiv	/e acti	ons: Ve	essel is	s Fit for Serv	ice OR Describe	Corrective Act	ions
(Operations to, discuss	with Chie	f Inspe	ector w	here n	ecessary, an	d get remedial	action impleme	nted)
Observations and Findings:								
Internal Rust extent unknown.								
Recommendations: Replace PSV Add PSV Replace PI Add PI		Autodr er - Spe						
Summary: Appears to be in service used condition.								
Inspection Interval 1 (Determined by Chief Inspection guidelines of Per	# ye regrine Int				nterval Owner-User Ir	1 nspection Program	# yea n)	irs
Vessel Scrapped - All three conditions below Vessel has been removed from service and the The nameplate has been removed and all other The vessel is in a condition that it cannot be pre- head has been cut off.	ere is no in r identifica	tention	to returi s been r	emove	d. been cut in the	Ce. e vessel, or a nozzle -mm-dd)	has been removed	1, or a
Vessel sold and transferred the registration	on of the	vossol	to:		(yyyy			
TO:		vessei	10.	Date	:			(yyyy-mm-dd)
Inspected By: Patrick McLean API-510 # 116881, 0	CGSB 1320	19				Date:	2024-06 yyyy-mm	
Verified By Chief Inspector: Paul Frederick ABSA ISI # A-82133 TSASK Class I # 8054	•				39	Date:	2024-06 yyyy-mm	
Calgary Office 406, 11979 - 40 Street SE		T			F 403.452-634 e-im.ca	2		Grande Prairie C 107, 10821 - 78 Av



PIM Sales Order #:	133- 03	Date:	June 06 ,2024
PIM Work Order #:	IS- 01	Equipment #:	Flash Separator
			A193907

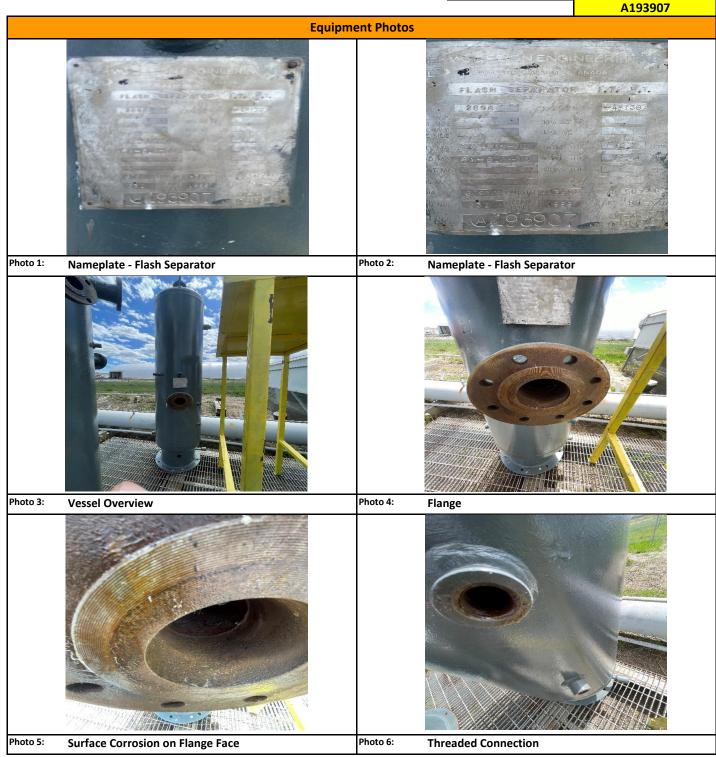
	ACTION ITEMS LIST	
Action Item	Responsible Party	Date Resolved



Flash Separator

EXTERNAL -

Report #:	Pressure Vessel Inspection Report - External
Date:	2024-06-06
Client:	Gunning Services
SO #:	133- 03



T 403.254-4231, F 403.452-6342 Peregrine-im.ca



Report #:	Pressure Vessel Inspection Report - External
Date:	2024-06-06
Client:	Gunning Services
SO #:	133- 03

EXTERNAL -	Flash Separator
	A193907

	Equipm	ent Photos	
Photo 7:	Drain	Photo 8:	Internal Rust
Photo 9:	Internal Rust	Photo 10:	Skirt



Ultrasonic Thickness External Report

PIM Sales C		133-	03	Ivianuia	acturer:				Date:		June 06	,2024
PIM Sales C	Order #	TE-01		Thermo	Design Er	ngineerii	ng Ltd.		Report #	PIM-UT-	133-03-202406	506-002
Client:	Gunning	Services							Tag #:		Flash Separa	ator
Facility:		Beiseker	Yard, Al	В					Serial	#:	332	
Location:	Beiseke	, АВ							Provin	cial	A193907	
Equipment	Descriptio	on:	Flash Se	eparato	r				Registi	ation #:		
			COND	ITION		TORIN			NS (TM	L's)		
		Ν	ameplat	te			B	0 5				
								020				
			INF	ORM	ATION -				DETAILS	5		
METHOD			INF Thick			UT EC	QUIP	010	DETAILS	5	Immersio	on
NSTRUMENT		ympus		kness MODEL	EPO	Flaw Det CH-600	QUIP	D10	Contact 130573	012	DATE	2024-08-15
NSTRUMENT CAL. BLOCK		ympus ep Wedge		kness MODEL S/N	EPO	Flaw Det	QUIP	D10 MENT I S/N CABLE-TYP	Contact 130573 E Coaxia	012 I		r
NSTRUMENT CAL. BLOCK CAL. BLOCK				kness MODEL S/N S/N	EPO	Flaw Det CH-600	QUIP	D10 MENT I S/N CABLE-TYP COUPLANT	Contact 130573 E Coaxia UT-Utra	012 I	DATE	2024-08-15
NSTRUMENT CAL. BLOCK CAL. BLOCK		ep Wedge	✓ Thick	kness MODEL S/N S/N S/N	EPO 21-2	Flaw Det CH-600 2552	QUIP	D10 MENT I S/N CABLE-TYP COUPLANT SPECIAL EC	Contact 130573 E Coaxia UT-Utra	012 -GEL	DATE	2024-08-15
NSTRUMENT CAL. BLOCK CAL. BLOCK CAL. BLOCK	St	ep Wedge	Thick	kness MODEL S/N S/N S/N ATION	EPO 21-2	Flaw Det CH-600 2552	QUIP rection	D10 MENT I S/N CABLE-TYP COUPLANT SPECIAL EC AND CA	Contact 130573 E Coaxia UT-Utra UIP ALIBRA	012 h-GEL TIONS	DATE LENGTH	2024-08-15
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NSTRUMENT CAL. BLOCK CAL. BLOCK CAL. BLOCK TEST ANGLE 1 ☑ 0° 2 ☑ 45°	St PROBE TY E Single Du	PE FREQ IMIN	FORM SER NO.	MODEL S/N S/N S/N ATION PROBE DIA.	EPO 21-2 J - TRAN TRANSFER	Flaw Det CH-600 2552 NSDU(TEST F FRONT	QUIP rection	S/N CABLE-TYP COUPLANT SPECIAL EC AND CA REFERENC REFERENC	Contact 130573 E Coaxia UT-Utra UIP ALIBRA R AB	012 I A-GEL TIONS ERENCE % FSH	DATE LENGTH SCAN SENSITIVITY	2024-08-11 48" RANGE
NSTRUMENT CAL. BLOCK CAL. BLOCK CAL. BLOCK TEST ANGLE 1 ✓ 0° 2 ↓ 45' 3 ↓ 60'	St PROBE TY E Single Du	PE FREQ IMIN	FORM SER NO.	MODEL S/N S/N S/N ATION PROBE DIA.	EPO 21-2 J - TRAN TRANSFER	Flaw Det CH-600 2552 NSDU(TEST F FRONT	QUIP rection	S/N CABLE-TYP COUPLANT SPECIAL EC AND CA REFERENC REFERENC	Contact 130573 E Coaxia UT-Utra UIP ALIBRA R AB	012 I A-GEL TIONS ERENCE % FSH	DATE LENGTH SCAN SENSITIVITY	2024-08-11 48" RANGE
AL. BLOCK CAL. BLOCK CAL. BLOCK CAL. BLOCK TEST ANGLE 1 0° 2 0° 3 0° 3 00° 4 70°	St PROBE TY E Single Du	PE FREQ IMIN	FORM SER NO.	kness MODEL S/N S/N ATION PROBE DIA. 0.500''	LIPO 21-2 J - TRAM TRANSFER VALUE	Flaw Det CH-600 2552	CERS FROM BACK	S/N CABLE-TYP COUPLANT SPECIAL EC AND CA REFERENC REFERENC Ist BW	Contact 130573 E Coaxia UT-Utra UIP ALIBRA R AB	012 I A-GEL TIONS ERENCE % FSH	DATE LENGTH SCAN SENSITIVITY	2024-08-11 48" RANGE
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T 403.254-4231, F 403.452-6342 Peregrine-im.ca Grande Prairie Office 107, 10821 - 78 Avenue Grande Prairie, Alberta T8W 2L2



Ultrasonic Thickness External Report

PIM Sales Order # PIM Work Order #	.33- 03 Manufacturer: TE- 01 Thermo Design Engineering Ltd.						Date: Report #: REG #:	Report #: Flash Separator			
		TEST	SURFAC	E AND T	HIC	KNESS RE	ADINGS				
Surface Condition:		Painted As Welded Machined				1achined	Shot Blasted		Clean Bare Metal		
Surface Temperature:		<0°C (32°F)	√ 0° (32°F)	to 120°C (250°F) 120°C ()°C (250°F) to 260°C (5	600°F)	>260°C (500°F))0°F)	
			DATA	RESULT	' S -	UT DATA					
1) TML Number	005		010	015		020					
TML Description	Top Hea	id Bo	ttom Head	Top Shell		Bottom She	ell				
Direction:	· · ·			i							
Flange Rating:	300		300	300		300					
Pipe Schedule:											
Nominal Thickness:	0.490		0.490 "	0.500		0.500 "					
Mill Tolerance:	0.000		0.000 "	0.010		0.010 "					
Corr. Allowance:	0.0625	" 0	.0625 "	0.0625	"	0.0625 "					
Minimum Thickness:	0.4275	" 0	.4275 "	0.4275	"	0.4275 "					
Readings										-	
Jun 06, 2024 1)	0.407		0.478 "	0.470		0.489 "					
Jun 06, 2024 2)	0.495	"	0.479 "	0.485	"	0.491 "					
3)											
5)											
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Ultrasonic Thickness External Report

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