

CA0131-MT-931

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Procedure: 5.0 Technique: MT-2F Code: ASME SEC.IV Other: Surface Condition: Painted		IRISNDT #: LYD15015 Location: HUSKY M Item Inspected: GL	PERATIONS 75 ORGAN BATTERY YCOL BOILER ; SN# 7119 As Forged Weldment			
Material: P1	d Candbiasted Macini			eat Treatment: AS WELDED		
	oke ⊠ Coil ☐ Permanent [☐IRISNDT #: 40099		alibration Date: 17-Nov-15		
			Mfg: CON. PROBE C	alibration Date. 17-Nov-15		
Blacklight: Y ⊠ N/A □ IRIS	AC DC Continuous SNDT #: 41018 rification per ASME V Art 7 T.77	Black	light Meter: IRISNDT :			
Whitelight: Y⊠ N/A ☐ Ver	rification per ASME V Art 7 T.77	77.1 Lighti	ng Equipment: Yoke Light	t (10W)		
	/ □ Wet ⊠ tch #: 1180	Red Grey Mfg: MIGLOW	Black ☐ Fluorescent ☑ Type: 810	1		
Background: Bat	tch #:	Mfg:	Type:			
Inspection Results: A MAGNETIC PARTICLE EXAMINATION WAS CARRIED OUT AS REQUESTED, ON BOTH ENDS OF 7 NEW TUBE TO TUBESHEET FILLET WELDS, ON GLYCOL BOILER. WELDER: KM RESULTS: ACCEPTABLE TO CODE AT THE TIME OF EXAMINATION. REQ. MARC CASE; APP. MARC CASE; 2Z-02018989; CC# 10063984; LSD: 10-34-51-04W4M						
	Hrs: 4.5 Hrs:		(Signature) Client Representative: (Print) (Signature) (Print) (Signature) (Print) I am in full agreement with report contents (Sign)	SNT-TC-1A: II C.G.S.B.: II (Level) C.G.S.B. #: 5357		
5311- 86 Steet, Edmonton, Alberta T6E 5T8 Calgary (403) 279-6121 Lloydminster (780) 875-6455 Barrhead (780) 674-3018 Nisku (780) 955-7616	8 Phone: (780) 437-2022 fax: (780) 436- Cold Lake Fort McMur Red Deer	(780) 826-6105	Eng Ro	gineering, Calgary (403) 217-9684 gineering, Edmonton (780) 437-2022 pe Access Services (780) 437-2022		



CA0131-MT-929

Procedure: 5.0 Rev 1.0 Technique: MT-2V Code: N/A; CRACK DETECTION Other:	Client: HUSKY OPERATIONS Date: 28-Dec-15 IRISNDT #: LYD1501570 WO #: 60223014 Location: HUSKY MORGAN BATTERY PO #: 8400982914 Item Inspected: GLYCOL BOILER; SN# 7119					
Surface Condition: Painted Sandblasted	ined ☐ As Cast☐ As Forged☐ Weldment ☒ Other ☒					
Material: P1	Thickness: VARIOUS Heat Treatment: AS WELDED					
Magnetizing Equipment: Yoke ⊠ Coil ☐ Permanent	□IRISNDT #: 40099 Mfg: CON. PROBE Calibration Date: 17-Nov-15					
Method of Magnetization: AC ⊠ DC ☐ Continuous						
Blacklight: Y N/A IRISNDT #: Verification per ASME V Art 7 T.77	Blacklight Meter: IRISNDT #: Calibration Date:					
Whitelight: Y ⊠ N/A ☐ Verification per ASME V Art 7 T.77	77.1 Lighting Equipment: Yoke Light (10W)					
Magnetic Particles: Dry ☐ Wet ☒ Batch #: 301-12	Red ☐ Grey ☐ Black ☒ Fluorescent ☐ Mfg: MAGNAFLUX Type: 7C					
Background: ⊠ Batch #: 1333	Mfg: ARDROX Type: 8901W					
Inspection Results: A MAGNETIC PARTICLE EXAMINATION WAS CARRIED OUT AS REQUESTED, 100% OF THE TUBE TO TUBESHEET FILLET WELDS (BOTH ENDS), ON GLYCOL BOILER. RESULTS: NO CRACKS WERE FOUND DURING THE INSPECTION. REQ. MARC CASE; APP. MARC CASE; 2Z-02018989; CC# 10063984; LSD: 10-34-51-04W4M						
Inspection Limitation(s):						
Unit#: 601 Kilometers: 100 MIN. In: 1200 Out: 1600 Hrs: 4.0 2-GAS MONIT Personnel: RANDY TRADEWELL AMANDA DEWOLFE	(Signature) C.G.S.B.: II (Level) C.G.S.B. #: 5357 (Signature) Client Representative: (Print) I am in full agreement with report contents (Sign)					
5311- 86 Steet, Edmonton, Alberta T6E 578 Phone: (780) 437-2022 fax: (780) 436-Calgary (403) 279-6121 Cold Lake Lloydminster (780) 875-6455 Fort McMu Barrhead (780) 674-3018 Red Deer Nisku (780) 955-7616 Rhone: (780) 437-2022 fax: (780) 437-202 fax: (780) 437-202 fax: (780) 4	(780) 826-6105 Engineering, Calgary (403) 217-9684					

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MAGNETIC PARTICLE INSPECTION REPORT

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Procedure: 5.0 Technique: MT-2F Code: N/A; CRACK DETE		Item Inspected: GLY	G RGAN BATTERY COL BOILER : SN# 7119	Date: 29-Dec-15 WO #: 60223014 PO #: 8400982914 ; A#607657 ☐ Other ☑		
	inted Sandblasted Mach	ined As Cast	As Forged Weldment			
Material: P1				at Treatment: AS WELDED		
Magnetizing Equipment:	Yoke ☑ Coil ☐ Permanent	☐IRISNDT #: 40099 M	lfg: CON. PROBE Ca	libration Date: 17-Nov-15		
Method of Magnetization:	AC ☑ DC ☐ Continuous					
Blacklight: Y ⊠ N/A □	IRISNDT #: 41018 Verification per ASME V Art 7 T.7		tht Meter: IRISNDT #: Calibration			
Whitelight: Y ⊠ N/A □	Verification per ASME V Art 7 T.7	77.1 Lighting	Equipment: Yoke Light	(10W)		
Magnetic Particles:	Dry ☐ Wet ⊠ Batch #: 1180	Red ☐ Grey ☐ E Mfg: MIGLOW	Black ☐ Fluorescent ☒ Type: 810			
Background:	Batch #:	Mfg:	Type:			
Inspection Results: A MAGNETIC PARTICLE EXAMINATION WAS CARRIED OUT AS REQUESTED, ON BOTH ENDS OF THE TUBESHEET, WHERE 7 TUBES HAD BEEN CUT OUT. RESULTS: ALL INDICATIONS WERE REMOVED BY GRINDING. REQ. MARC CASE; APP. MARC CASE; 2Z-02018989; CC# 10063984; LSD: 10-34-51-04W4M						
Inspection Limitation(s):	21 -	Inte	ernretation by:			
In: 1300 Out: 1600 In: Out: Personnel: RANDY TRADEWELL JORDAN ROSS	Consumables: MIN. Hrs: 3.0 Consumables: MIN. 2-GAS MONI*	TORS RA (Pri	erpretation by: ANDY TRADEWELL init) Pag Judewell gnature) ent Representative: (Print) m in full reement with port contents (Sign)	SNT-TC-1A: II C.G.S.B.: II (Level) C.G.S.B.#: 5357		
Calgary (403) 279-61: Lloydminster (780) 875-64:	21 Cold Lake	(780) 826-6105	Engir	neering, Calgary (403) 217-9684		