

			LSD: 10-	30-048-0	1W4	Date: 20	015-01-14	SAP Equ	ipment ID	62046545	
				AIR CO	OLED HEAT E	<b>XCHANGE</b>	R STATIC DA	ATA			
lant:	Blac	ckfoot/Lloyd		OI	P Unit:				System:		
ov. Insp . #				CF	RN:	M-5200.23	3		<b>Equip Tag#:</b> 62046545		
uipment De	scription:	COOLE	R					Serial #:	010	12-3	
nufacturer	AIR	COOLED EX	CHANGER INC.						Vessel Class	AC	HE
ternal Acces	ss: No			De	Description:			Year Built:	20	01	
AWP:	177	24	kpa	At	: Тетр	112	С		MDMT:		-29 C
Code: N/S					uid Service:	Sweet:	Sour:		PWHT:	No	
mension				Le	ength: 610	mm <b>(</b> '	T/T): mm o	AL: mm	Orientation:	Ver	tical
SHE	LL I	Mat'l: Unk	Top, Botton	Th	nickness:	0.00	12.7 mm		Corr Allowar	ice: (	0.00 1.6 mm
In/Outlet	Nozzle M	1at'l: SA 10	)6B	Th	nickness:	8.7 mm	n (2" SCH.160)		Corr Allowar	ice:	
ternal Coati	ng: No	)		In	ternal Clad:	No			Capacity:		m3
ozzle Rating	j: 1	50	lb ANSI	Pa	ainted:	Ye	s		Insulated:	No	
					PROCESS	DATA					
perating Pro	essure		kpa	О	perating Temp:			С			
					PSV STATI	C DATA					
			6:	····	Cat Passas	Capacity	M			14	Ci
Tag #	Serial No.	Location	Inlet	(mm) Outl	Set Press (kPa)	Imperial	Manufacture	Manufacturei		Last Service	Service Company
N/S	78315-14	Piping	25.40	25.4		761	TAYLOR		T-8200-1	2014/08/11	GUEST CONTROL
		<u> </u>	<u> </u>			<u> </u>	<u> </u>			<u> </u>	SYSTEMS
					PSV DET	AILS					
		Type(T	hread/Flange	)	AN	SI Rating			Size(In/mm)		
PRD Inle	et	Thread	ed		150			25.40			
PRD Out	et	Thread	ed		150			25.40			
				NE	E Equipment	Records					
Proced	ure #	Descri	ption		ufacturer		odel#		Serial#		Due Date
**** See As	sociated ND	F Renort	<u>'</u>		!					<u> </u>	
JCC AS	Sociated ND	- кероге									
					INSPECTI	ON SUMM	ARY				
ESSEL FIT F	OR SERVIC	E									
					RECOM	MENDATI	ONS				
				NONC	ONFORMANC	ES/INSPE	CTION DEFI	CIENCE	S		
						-					



Assessed Next Inspection Date

2020

### AIR COOLED HEAT EXCHANGER INSPECTION REPORT

LSD: 10-30-048-01W4 Date: 2015-01-14 SAP Equipment ID 62046545

#### INSPECTION PLANNING

		INSPECTION PLANE	IING				
Inspection Strategy		Availability	Ir	nspection Interval		5 year	
Inspection Date	2015/01/14	Date of Last Inspect	Di	ate of Next Insp	2	2020/01/14	
		REPORT CERTIFICAT	ION				
•	, , ,	ave been completed in accordance with the idea the date of next inspection.	ntified inspection strate	egy and that the			
Inspected by	Jamey Ta	nasichuk	Cert #	000411	Date	2015/01/14	
Reviewed and Approved I					Date		
Criticality Assessment Rer	run	Inspection Planning Rerun					



#### **DETAILED INSPECTION VISUAL EXTERNAL**

			•		
ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	N/A			
V2	General Corrosion	Accept			GOOD CONDITION
V3	General Leaks	Accept			NO VISIBLE LEAKS
V4	Vibration	Accept			MINOR VIBRATION NO ISSUES
V5	Dissimilar Flange Rating	N/A			
V6	Ladder/Stairway	N/A			
V7	Heads	N/A			
V9	Electrical Ground	Accept			BUILDING GROUNDED
V10	Painted Inactive Corrosion	N/A			
V11	Coating/Painting	Accept			GOOD CONDITION
V12	Expansion Joint or Bellows	N/A			
V13	Gauge/Site Glass	Accept			GOOD CONDITION
V14	Shell	Accept			GOOD CONDITION
V15	Jacket	N/A			
V21	Support Other (Please explain)	Accept			SECURED TO FOUNDATION
V22	Foundation	Accept			GOOD CONDITION
V23	Anchor Bolts	Accept			
V24	Saddle/Skirt	N/A			
V25	Davit	N/A			
V26	Fireproofing	N/A			
V31	Connections Other (Please explain)	N/A			
V32	Small Branches	N/A			
V33	Nozzles	Accept			GOOD CONDITION
V34	Manways	N/A			
V35	Reinforcing Pads	N/A			
V36	Inadequate Thread Engagement	N/A			
V37	Bolting	Accept			GOOD CONDITION
V38	Flanges	Accept			GOOD CONDITION
V39	Leak Clamps	N/A			
V41	Insulation Other (Please explain)	N/A			
V42	Damage	N/A			
V43	Penetrations	N/A			
V44	Insulation Jacket	N/A			
V45	Banding	N/A			
V46	Seals/Joints	N/A			
V51	Relief Devices Other (Please explain)	Accept			PSV GOOD CONDITION SEAL INTACT
V52	Corrosion	N/A			
V53	Leaks	N/A			
V54	Restricted Inlet/Outlet	N/A			
V55	Manual Operation Lever	N/A			
		1			



LSD: 10-30-048-01W4 Date: 2015-01-14 SAP Equipment ID 62046545

### **DETAILED INSPECTION OTHER TECHNIQUES**

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

#### **DETAILED INSPECTION TUBE INSPECTION**

Tube #	Flaw Type	Flaw Length	Location on Tube	Wall Loss	NCR	Comments

#### **DETAILED INSPECTION UT THICKNESS**

	CML	Nom. Thickness (mm)	CURRENT READINGS (mm)	short term corr rate (mm/y)	long term corr rate (mm/y)	remaining life (year)	Survey Date	Comments
05	(SHELL) SA 516-70	0.00 12.7	13.21	0.0000	0.0000	198.0	2015/01/14	
10	(SHELL) SA 516-70	0.00 12.7	13.08	0.0000	0.0000	198.0	2015/01/14	

15	(90L 2 XS) SA 106B	5.54	5.33	0.0144	0.0144	343.6	2015/01/14	WITHIN TOLERANCE
20	(90L 3 STD) SA 106B	5.49	5.16	0.0234	0.0234	196.2	2015/01/14	WITHIN TOLERANCE

Inspected By	Signature	CGSB Level	CGSB No.	Survey Date	UT Equip	Due Date OF Calibration	NDE Procedure No.
Jamey Tanasichuk	J. C.	1	11444	01/14/2015	109_81583903_EPOCH 4	06/17/2015	WQS UT-001



LSD: 10-30-048-01W4

Date: 2015-01-14 SAP Equipment ID

62046545



Client:

**HUSKY ENERGY** 

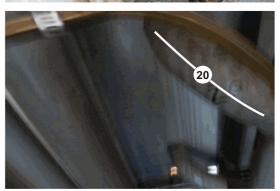
### **EXAMINATION ILLUSTRATION**

DISTRICT:	AN-ALB-NORTH	FACILITY:	BLACKFOOT/LLOYD	LOCATION/LSD:	10-30-048-01W4
EQUIP NAME:	HEAT EXCHANGER		PROV REG No.:		
SERIAL No.:	01012-3	Equip No.:	62046545	National Board No.:	









NOTES:			



### Client:

## **HUSKY ENERGY**

### **PHOTOGRAPHS**

EQUIP NAME:	HEAT EXCHANGER			PROV REG No.:	
SERIAL No.:	01012-3	Equip No.:	62046545	National Board No.:	

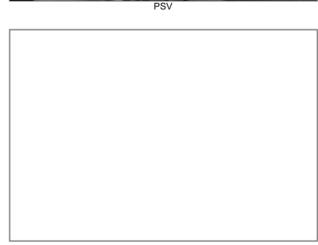












PS