

01-18-017-18W4M
GLYCOL COOLER
808006.1BC65693
REPORT # 808006.1B_GRADY INSPECTION LTD VE UT INSP_31MAR2022

DATE 3/31/2022
CLIENT CNRL

Phone:403-793-7697

8 Sarah King Crt E Brooks, Alberta, T1R 0J8
grady.rustebakke@gmail.com




RESULTS OF INSPECTION:


VE Inspection:
Fit For Service. Vessel is in good visual condition.
UT Inspection:
No corrosion was found with the ultrasonic inspection.


PRESSURE EQUIPMENT										AB-506 INTERVAL																			
DISTRICT					SHELL TUBE					Air cooled heat exchangers																			
FACILITY		ARMADA			MAWT		300		F		GRADE		YEARS			REG													
A#		YR		1980		MAWP		15		psi		3		10		6		10		X									
SERIAL #				808006.1B				PSV				psi				INSPECTION TYPE													
CRN				PSV CRN																									
EQUIP#				SERVICED																									
STATUS		IN SERVICE			UNIT		K301			VE		VI		MT		PT		ET		UT									
		X																		X									
MANUFACTURER										AIR-X-CHANGER LTD.										INSPECTION RESULT:									
DH LSD					L					Ft OD					.33					Ft					NCR-OPERATIONS				
REPAD					UNIQUE ID					C65693										NCR-REGULATORY/ADMIN									
																				ACTION ITEM RAISED									
																				REPAIR REQUIRED									
																				SUITABLE FOR SERVICE					X				
RECOMMENDATIONS:																													
VE Inspection: No Recommendations from the External Inspection.																													

SIGN OFF		API 510		EXP.		IPV		EXP.		INSPECTOR - PRIMARY					INSPECTOR - REVIEW					CLIENT SIGN OFF						
INSPECTED BY		ToddM Mckenzie		97445		12/31/202		00133		7/13/2026																
REVIEWED BY		Ashley Rustebakke		60285		7/31/2024		966		6/16/2026																

Ultrasonic Report		Date	4/1/2022	Phone: 403-793-7697	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant	8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
DH-LSD		Field	Red Deer District		
Jurisdiction #					
Serial #	808006.1B				
Ultrasonic Report #: 808006.1B_GRADY INSPECTION LTD VE UT INSP_31MAR2022					

ULTRASONIC SET			COMPONENT DETAILS				CODE					
EQUIPMENT	CALIBRATION DUE	SERIAL NUMBER	MATERIAL GRADE	SURFACE PREP		TEMP	THICKNESS	CALIBRATION	EVALUATION			
EPOCH 600	2/25/2023	120388107	Carbon Steel	Painted		0C		ASME V	ASME VIII Div 1			
CALIBRATION BLOCK		PROBE							COUPLING		METHOD	
TYPE	SERIAL#	REF dB	SCAN dB	FREQ.	SIZE.	ANGLE	SERIAL #	TYPE	COUPLANT	CABLE	TECHNIQUE	PROCEDURE
10 Step Metric	14-2065	60	66	5 Mhz	0.25 "	0	15B00DU3	Dual	UT-X	6' BNC to Micro	LW Dual	UT01T1R4
SCOPE		As requested by Dustin Rumohr an ultrasonic inspection was completed on the GLYCOL COOLER										
LIMITATIONS		None.										
RESULTS		No corrosion was found with the ultrasonic inspection.										

Technician Name	Certification Body	Certification #	Expiry	Technician Signature			
3 ToddM	CGSB	9234					
				Client Name			
				Client Signature			

External Inspection - (Vessel)		Date	4/1/2022	Phone:403-793-7697	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant	8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
DH-LSD		Field	Red Deer District		
Jurisdiction #					

Fit For Service:	Fit For Service.
Inspection Summary:	Vessel is in good visual condition.
Recommendations:	No Recommendations from the External Inspection.

External Inspection Items	G/F/P	Comments
General Condition:	Good	No notable mechanical damage, areas of wear/fretting, distortion, misalignment, or visible weld defects.
External Coating:	Good	Vessel is in good visual condition.
Insulation / Cladding:	N/A	Non insulated vessel
Nozzles, Piping and Connections:	Good	Nozzles and piping in good visual condition
Buried Vessels:	N/A	Above Ground
Ladders, Platforms and Walkways:	Good	Building secure
Foundations and Supports:	Good	Anchor bolts fully engaged
Shell:.	Good	No notable mechanical damage, areas of wear/fretting, distortion, misalignment or visible weld defects.
Saddles / Skirts:	Good	Saddle is in good visual condition
Grounding:	Good	Ground Wire is secure
Gauges and Instrumentation:	N/A	Shell Gauge (- @) Temp Gauge (- @)
Pressure Protection:	N/A	Non code vessel
NDE Summary:	Good	No corrosion was found with the ultrasonic inspection.
Manway Davits/Quick Closure:	N/A	No Manway
Nameplate:	Good	Nameplate is legible and readily accessible and securely affixed. Non code vessel
Code Variance:		

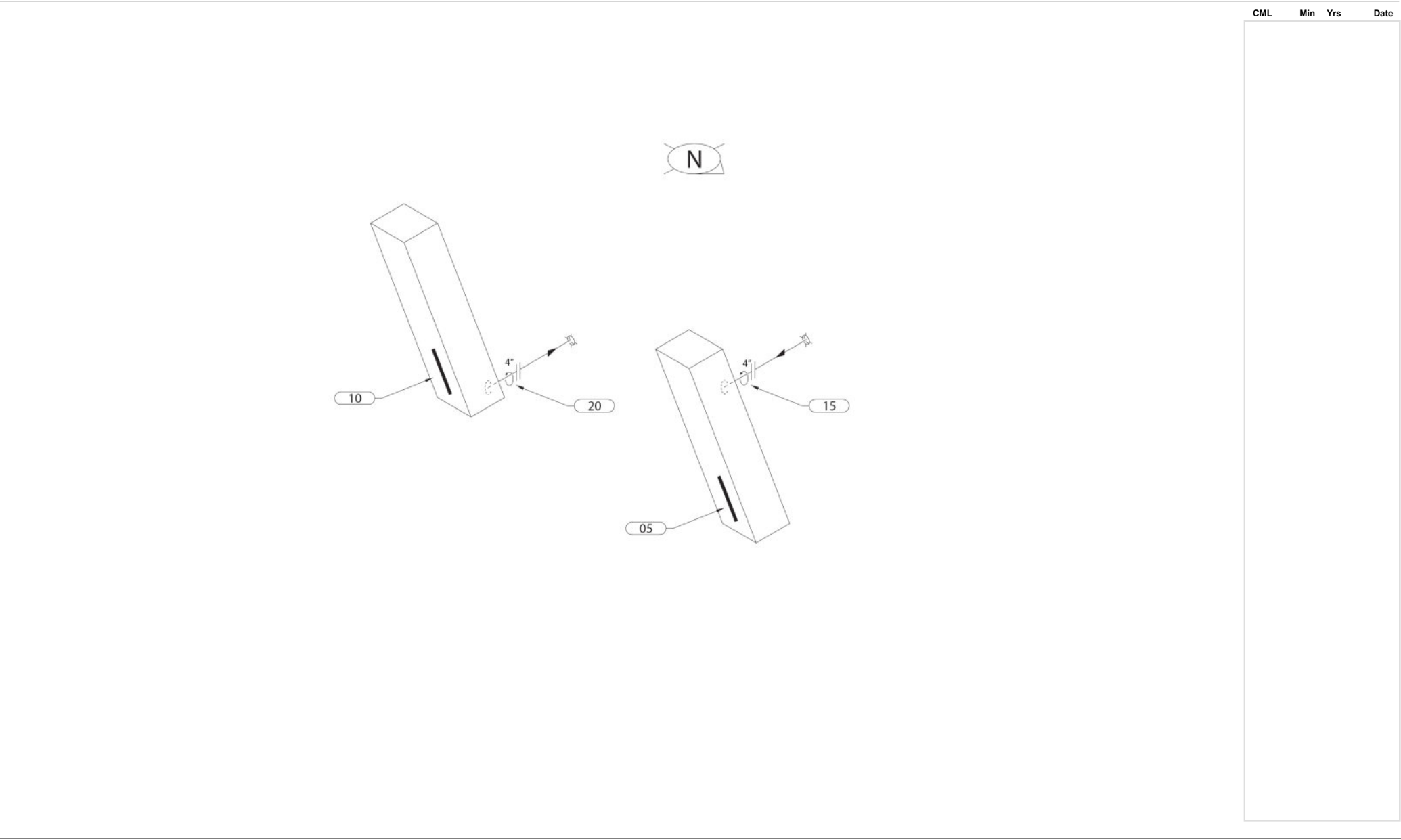
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Jur # DWG 1 Location:
Ser # 808006.1B

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Ser # 808006.1B							Inspection Dates and Thickness Values (mm)										%		Corrosion Rates			Rem Life		Next Insp		Insp Int			
CML#	Nom	CA/Tol	SFlag	STmin	PTmin	> Tmin	Comp	Type	Pipe Size	Code	MOP	Baseline		3rd Last		2nd Last		Last		# of Insp	Nom Wall Loss	ST	LTn	LTi	Rem Life Date	Rem Life (yrs)	Next Insp Date	Insp Int (yrs)	Inspection Comments



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Ser #		808006.1B		Inspection Dates and Thickness Values (mm)																									
CML#	Nom	CA/Tol	SFlag	STmin	PTmin	> Tmin	Comp Type	Pipe Size	Code	MOP	Baseline		3rd Last		2nd Last		Last		# of Insp	% Norm Wall Loss	Corrosion Rates			Rem Life	Rem Life (yrs)	Next Insp Date	Insp Int (yrs)	Inspection Comments	
											Date	Min	Ave	Date	Min	Ave	Date	Min	Ave			ST	LTn	LTi	Date				
05	0.0	0.0	-167.6				Shell		UG27ShellInt	15	3/31/22	12.3	12.5							1							3/28/2032	10.0	
10	0.0	0.0	-167.6				Shell		UG27ShellInt	15	3/31/22	12.2	12.4							1							3/28/2032	10.0	
15	8.6			5.3		5.3	Nozzle	4" XS 80--(8.6mm)	UG45Nozzle	15	3/31/22	8.7	9.2							1	-1%						3/28/2032	10.0	
20	8.6			5.3		5.3	Nozzle	4" XS 80--(8.6mm)	UG45Nozzle	15	3/31/22	8.8	9.2							1	-2%						3/28/2032	10.0	