

Existing Equipment Integrity Assessment Report

Date July 27,
2023

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Inspect Date: July 27, 2023	Client: Yoho Resources	District: Inga, BC	LSD: 10-19-087-23W6
Facility:	Client Ref #	IRM Ref #	P004
Equipment #:	Description: Glycol Aerial Cooler (Bottom)	Jur# N/A	CRN: N/A
MFR: Air-X-Changers	Mfr S/N: 055572.2	Mfr Date: 2005	Status: Operating

Fit for Service: Yes Suitable for Service: Yes PSV meets Code: N/A PSV set at or below MAWP: N/A
 Online PSV Inspection has been completed: N/A
 PSV Capacity Verified: N/A
 Repair / Alteration / PSV Calibration Required: No

Current Inspection Results

2023-07 VE UT completed by RJC Integrity
 VE | The caulking at the piping to building interfaces have failed.
 UT | DUE 2025
 PSV | NA

Assessment completed by Aaron Bischoff | VE reviewed; no major concerns noted. AJB

Past PSV Servicing Results

Past Inspection History Results

No historical inspections

NEXT NDE & Inspection Methods

<input checked="" type="checkbox"/> VE	<input type="checkbox"/> VI	<input checked="" type="checkbox"/> UT 2025	<input type="checkbox"/> BW
<input type="checkbox"/> WF	<input type="checkbox"/> LF	<input type="checkbox"/> ET	<input type="checkbox"/> HIC
<input type="checkbox"/> CREEP	<input type="checkbox"/> BHN	<input type="checkbox"/> CDR	<input type="checkbox"/> MFL

Other:

Previous Inspection Plan

No historical ITP

Next Inspection Plan

Expected damage mechanisms and locations: General Erosion / Corrosion. Localized pitting possible.
 Primary Areas of degradation: Bottom head and piping elbows.
 NDE examinations (type & extent): VE on 5-year Interval – due July 2028
 UT on 20 #-year DUE 2025
 Preparation for next inspection: None

Qualified

Inspector: Aaron Bischoff Qual: IBPV#644

Signature:



Report date: 17-Nov-2023 status: Final



Vessel External Inspection

Report No.:


Client	Yoho Resources				Inspector	Ryan Cadieux				Date	July 27, 2023														
District	Inga, BC		Surface LSD	10-19-087-23W6				Downhole LSD																	
Vessel Data																									
Vessel Description		Glycol Aerial Cooler (Bottom)				RT	No		PWHT <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Partial <input type="checkbox"/>														
A# / NB#		N/A		Serial #		055572.2		CRN #		N/A															
Manufacturer		Air-X-Changers				Manway <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Size:																	
Owner Tag		N/S		Skid		Comp Skid #050903		OD		Length															
MAWP 1		<input checked="" type="checkbox"/> Shell <input type="checkbox"/> Tube		14		psi		kPa		MAWT		C		300		F		MDMT		C		-20		F	
MAWP 2		<input type="checkbox"/> Shell <input type="checkbox"/> Tube				psi		kPa		MAWT		C				F		MDMT		C				F	
Operating Pressure				psi				kPa		Operating Temp		C				F		Flange Rating #		N/A					
Process Conditions: <input checked="" type="checkbox"/> Sweet <input type="checkbox"/> Sour								Internal Coating:				N/S													
Product: <input type="checkbox"/> Gas <input type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/> Effluent <input checked="" type="checkbox"/> Other: Glycol / Oil																									
PSV #1 Data																									
Owner ID/Tag								PSV Location																	
Manufacturer								Model #																	
Serial #								Mfg Date																	
CRN #								Code																	
Set Pressure								<input checked="" type="checkbox"/> psi <input type="checkbox"/> kPa				Service Company													
Capacity				scfm				gpm				Other		Service Date				Service Tag #							
Inlet Size				NPS		Type <input type="checkbox"/> THD <input type="checkbox"/> FLG #				Outlet Size				NPS		Type <input type="checkbox"/> THD <input type="checkbox"/> FLG #									
Inlet Block Valve <input type="checkbox"/> Yes <input type="checkbox"/> No				Locked/Sealed <input type="checkbox"/> Yes <input type="checkbox"/> No				Outlet Block Valve <input type="checkbox"/> Yes <input type="checkbox"/> No				Locked/Sealed <input type="checkbox"/> Yes <input type="checkbox"/> No													
Seal Intact:				<input type="checkbox"/> Yes <input type="checkbox"/> No				Properly Supported				<input type="checkbox"/> Yes <input type="checkbox"/> No													
Drainage (i.e. pocketed, missing tailpipe):																									
Discharge Piped to (i.e. flare line, pop tank, FKO, atmosphere):																									
PSV General Condition/Comments:																									
PSV #2 Data																									
Owner ID/Tag								PSV Location																	
Manufacturer								Model #																	
Serial #								Mfg Date																	
CRN #								Code																	
Set Pressure								<input type="checkbox"/> psi <input type="checkbox"/> kPa				Service Company													
Capacity				scfm				gpm				Other		Service Date				Service Tag #							
Inlet Size				NPS		Type <input type="checkbox"/> THD <input type="checkbox"/> FLG #				Outlet Size				NPS		Type <input type="checkbox"/> THD <input type="checkbox"/> FLG #									
Inlet Block Valve <input type="checkbox"/> Yes <input type="checkbox"/> No				Locked/Sealed <input type="checkbox"/> Yes <input type="checkbox"/> No				Outlet Block Valve <input type="checkbox"/> Yes <input type="checkbox"/> No				Locked/Sealed <input type="checkbox"/> Yes <input type="checkbox"/> No													
Seal Intact:				<input type="checkbox"/> Yes <input type="checkbox"/> No				Properly Supported				<input type="checkbox"/> Yes <input type="checkbox"/> No													
Drainage (i.e. pocketed, missing tailpipe):																									
Discharge Piped to (i.e. flare line, pop tank, FKO, atmosphere):																									
PSV General Condition/Comments:																									

Vessel External Inspection

Report No.:

External Inspection	Good	Fair*	Poor*	N/A	External Inspection	Good	Fair*	Poor*	N/A
Skid Foundation/Supports	X				Ladder(s)/Platforms				X
Insulation/Cladding		X			Gauges				X
Vessel Nameplate	X				Valves				X
Vessel Saddle/Skirt/Supports/Bolts	X				Piping	X			
Vessel Paint/Coating	X				Flanges/Bolting (per Code)				X
Vessel Shell				X	Piping Support	X			
Vessel Head	X				Catadyne Heaters (zip ties)				X
Nozzles	X				Surface Staining of Ground	X			
Pig Traps (ie evidence of hammering)				X	Signage (i.e. stand alone)				X
Regulators Vented	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Vessel/Skid Grounded	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

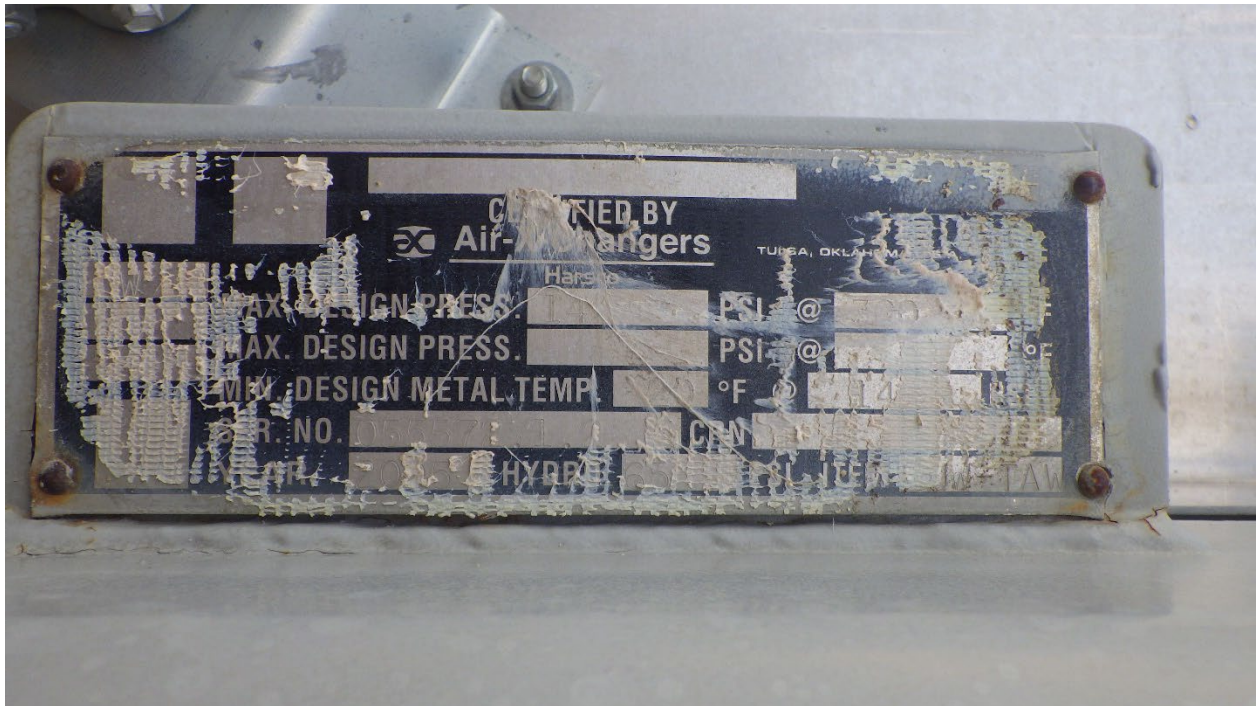
* Fair and Poor selections require comments

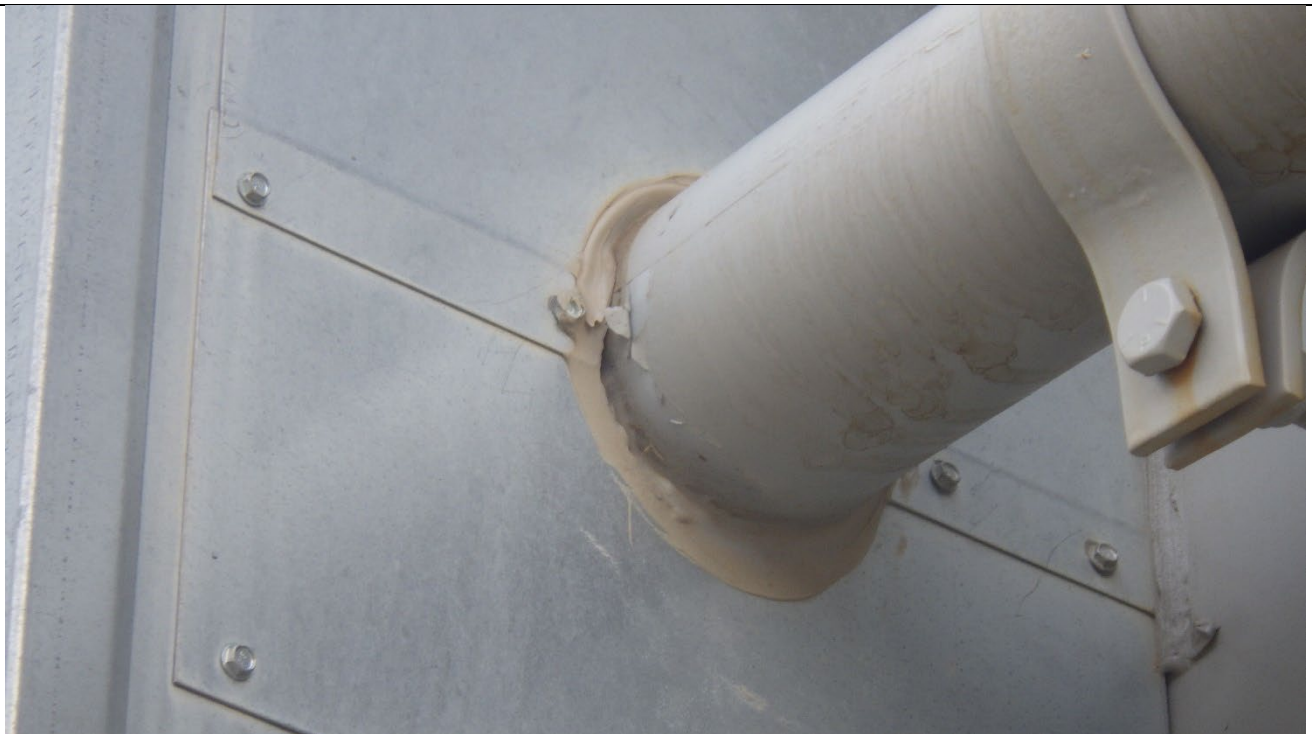
Comments:				
1. The caulking at the piping to building interfaces have failed.				
<input checked="" type="checkbox"/> In Service <input type="checkbox"/> Idle <input type="checkbox"/> Blinded/Disconnected		Signature		Date July 27, 2023

Vessel External Inspection

PHOTOS

Report No.:





Vessel External Inspection

Report No.:



Vessel External Inspection

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