

Existing Equipment Integrity Assessment Report

Date July 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 (Top)	Jur# N/A	CRN: N/A
MFR: Air-X-Changers	Mfr S/N: 055572.1	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 2028	<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
 PSV: NA

Qualified

Inspector: Aaron Bischoff Qual: IBPV#644

Signature:



Report date: 17-Nov-2023 Report 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 (Top)				RT	No		PWHT	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Partial <input type="checkbox"/>										
A# / NB#	N/A		Serial #	055572.1			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			

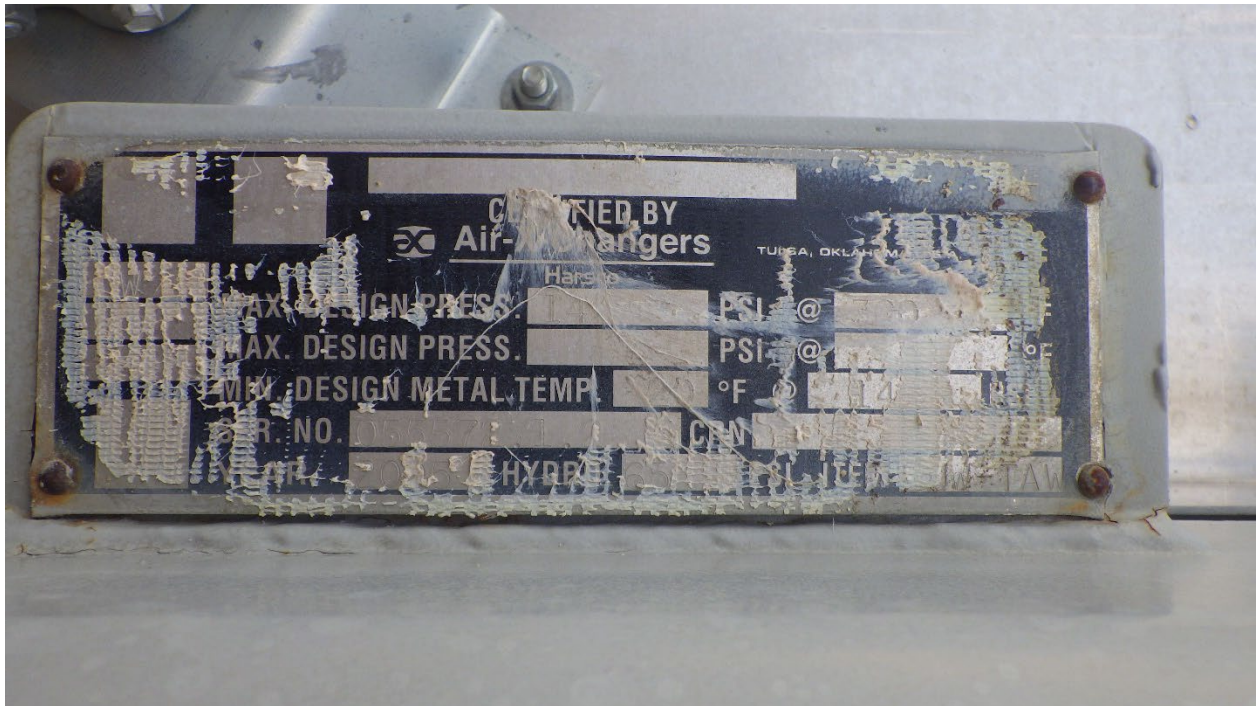
* Fair and Poor selections require comments

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

Report No.:

