

BOILER INSPECTION REPORT

LSD 10-34-051-04-W4M

Date: Aug 15, 2017

SAP Equipment ID

62066035

Report # 170815SDF005

BOILER STATIC DATA									
Plant				Morgan Treating Facility			Op Unit		System
Prov. Insp. #			NB#			CRN		Equip Tag #	
Equipment Description				Heating Boiler			Serial # 7119		
Manufacturer				Saskatoon Boiler			Vessel Class		
Internal Access				YES			Year Built 2011		
BOILER PROPER									
MAWP			psi		@		°F		MDMT °C /
CODE			Glycol		Sweet		PWHT : N/A		
Operating Pressure			80		psi		Operating Temperature 125°F		
Diameter		Length	(T/T)		mm/in		OAL		mm / in
Shell		Mat'l	Thickness		mm / in		Corr Allowance mm / in		
Head		Mat'l	Thickness		mm / in		Corr Allowance mm / in		
Internal Coating: NO			Internal Clad NO			Capacity m ³			
Manway Yes			Inspection Port YES			Legs			
Nozzle Rating		150	lb ANSI		Painted		YES		Insulated YES
ECONOMIZER									
MAWP			kPa / psi		@		°C / °F		MDMT °C / °F
CODE			Fluid Service		Sweet/Sour		PWHT :		
Operating Pressure			kPa / psi		Operating Temperature		°C / °F		
Diameter		Length	(T/T)		mm/in		OAL		mm / in
Shell		Mat'l	Thickness		mm / in		Corr Allowance mm / in		
Head		Mat'l	Thickness		mm / in		Corr Allowance mm / in		
Internal Coating: YES NO			Internal Clad YES NO			Capacity m ³			
Manway YES NO			Inspection Port YES NO			Skirt Legs Saddle			
Nozzle Rating		lb ANSI	Painted		YES NO		Insulated YES NO		
PSV STATIC DATA 66191859									
Serial No.	Location		Set Pressure		Capacity SCFM / Lbs/Hr / GPM		Manufacturer		Model / Type
3933	Top of boiler		160 PSI		7013 lbs/hr		Knuckle		927BHGM06ABE
									Dec 15 / Guest
PSV DETAILS									
	Type (Thread/Flange)				ANSI Rating			Size (mm)	
PRD Inlet	1.5" Male NPT								
PRD Outlet	2.5" Female NPT								

INSPECTION SUMMARY

-The Boiler was found fit for continued service with no outstanding concerns affecting the pressure boundary at time of inspection.

RECOMMENDATIONS

-Replace missing insulation around rear legs

NONCONFORMANCES / INSPECTION DEFICIENCIES

-None at the time of inspection.

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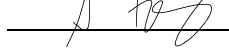
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INSPECTION PLANNING

Inspection Strategy	Availability	Inspection Interval	3 Years
Inspection Date	Aug 2017	Date of Last Inspect	Date of Next Inspect
			Aug 2020

REPORT CERTIFICATION

The signatures below certify that inspections/tests have been completed in accordance with the identified inspection strategy and that the specified equipment is considered fit for service until the date of next inspection.

Inspected by	VE - Scott Fong		Date	Aug 15, 2017
Company	Silvertip Inspection Services Ltd.	IBPV #	78817(sk)/0187(ab)	API #
Reviewed and Approved by			Date	
		IBPV #		API #
Criticality Assessment Rerun		Inspection Planning Rerun		
Assessed Next Inspection Date	2020			

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DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	Good			No outstanding concerns, the equipment was found in acceptable condition for continued service. The nameplate is intact and legible.
V2	General Corrosion	Good			No significant corrosion noted.
V3	General Leaks	Good			No leaks noted.
V4	Vibration	Good			No detrimental vibration noted.
V5	Dissimilar Flange Rating	Good			No outstanding concerns.
V6	Ladder/Stairway	N/A			
V7	Platforms	N/A			
V8	Guy Wires	N/A			
V9	Electrical Ground	Good			The boiler was bolted to the skid, and the skid was grounded.
V10	Painted Inactive Corrosion	N/A			
V11	Coating/Painting	Good			Boiler casing paint was in good condition.
V12	Expansion Joint or Bellows	N/A			
V13	Gauge/Site Glass	Good			Gauges and site glass appeared in good working condition.
V14	Shell	N/A			
V15	Jacket	N/A			
V21	Support Other (Please explain)	N/A			
V22	Foundation	Good			Boiler legs were bolted to the skid.
V23	Anchor Bolts	Good			No significant deterioration noted.
V24	Saddle/Skirt	N/A			
V25	Davit	Good			No concerns with the davits/hinges.
V26	Fireproofing	N/A			
V31	Connections Other (Please explain)	Good			All piping connections to the boiler are secure.
V32	Small Branches	Good			There are no concerns with small branch connections.
V33	Nozzles	Good			All visible nozzles are straight with no mechanical deficiencies noted
V34	Manways	N/A			
V35	Reinforcing Pads	N/A			
V36	Inadequate Thread Engagement	Good			No short studs or bolting noted.
V37	Bolting	Good			No missing bolts or studs noted.
V38	Flanges	Good			No significant misalignment noted.
V39	Leak Clamps	N/A			
V41	Insulation Other (Please explain)	Fair			Some insulation missing near the rear legs.
V42	Damage	N/A			
V43	Penetrations	N/A			
V44	Insulation Jacket	Fair			Some cladding around the rear legs is loose.
V45	Banding	N/A			
V46	Seals/Joints	N/A			
V51	Relief Devices Other (Please explain)	Good			No concerns with the PSV.
V52	Corrosion	Good			No significant corrosion noted on the PSV
V53	Leaks	Good			No leaks noted
V54	Restricted Inlet/Outlet	Good			No restrictions noted on the PSV inlet or outlet.
V55	Manual Operation Lever	Good			Manual lever on PSV appeared in good condition.

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PHOTOS



Nameplate



Overview



Front Head



PSV



PSV tag



Missing Insulation and loose cladding