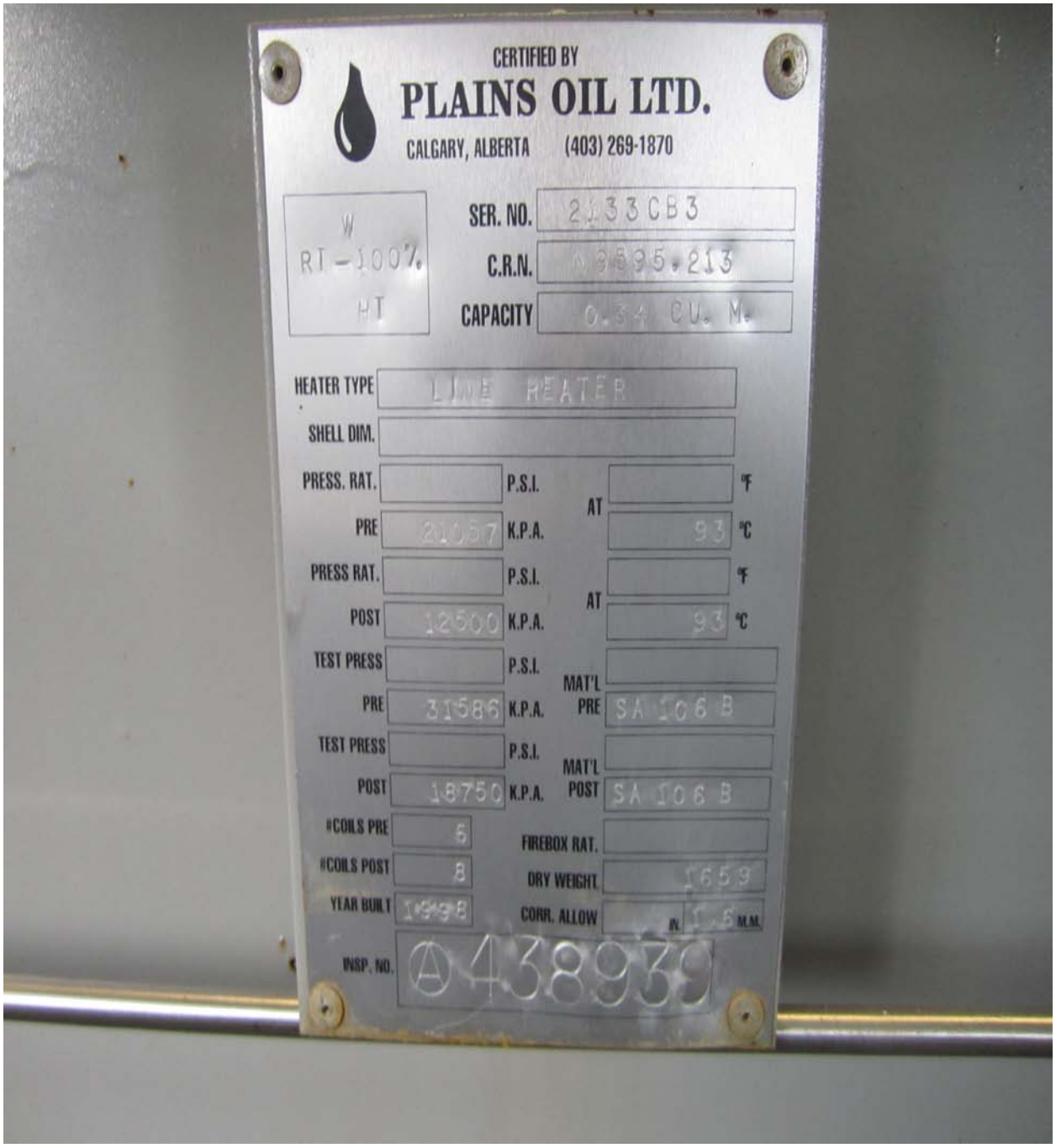
Field Inspection Report



A0438939_Name plate_28Mar2012

Field Inspection Report

Client	CNRL		Date of Inspection	March 28, 2012			
Prov. Reg.#	A0438939		Inspection Type	VE & UT			
Equipment	Line Heater		Location	5-21			
Tag/Equip. #			LSD	05-21-012-14W4M			
Vessel Status	In Service		Comp./Unit #				
Manufacturer	Plains Oil Ltd.		MAWP / Temp				
Serial #	2133CB3	CRN # N 9595.213	MDMT@ Pressure				
Corrosion Allowance	1.6mm	Shell Material	SA106B	Shell Thickness			
Year Built	1998	Head Material	SA106B	Head Thickness			
Diameter	60" OD / 30" OD	Length	Height	RT	RT-1	HT	Yes
Service	Sour	Next Inspection		Next Insp. Type			
ASME Stamp	No	Next Inspection		Next Insp. Type			
PSV Tag #		CRN#		Set Pressure			
Manufacturer				NB#		ASME Stamp	
Type/Model		Serial		Inlet Size			
Capacity		Service Company		Outlet Size			
Service Date			Next Service Date				
Valve Location	On Vessel On Piping Vents to Flare • Vents to Atmosphere	Valve Connection	Threaded Flanged Welded	ABSA CODE TYPE Plant / Process Vessel / Special			
PSV Tag #		CRN#		Set Pressure			
Manufacturer		NB#		NB#		ASME Stamp	
Type/Model		Serial #		Inlet Size			
Capacity		Service Company		Outlet Size			
Service Date			Next Service Date				
Valve Location	On Vessel On Piping Vents to Flare Vents to Atmosphere	Valve Connection	Threaded Flanged Welded				

Manway: Firetube manway covers.

Background:

PSV: Vessel vents to atmosphere.

Field Inspection Report

Ladders, Stairs, Platforms & Walkways
Corroded or Broken Parts-
Condition of Coating-
Wear of Ladder Rungs & Stair Treads-
Handrails Secure-
Condition of Flooring on Walkways-
Check Tightness of Bolts-
Check for Corrosion-
Additional comments:

Concrete Supports and Foundations
Steel Supports (Skirts, Bracing)
Check for Corrosion-
Check for Buckling & deflection-
Check Vessel Supports for Tightness-
Check Insulation for Deterioration-
Additional Comments:

Nozzles
Check for Distortion-
If Found; Check Surrounding Shell and Seams for cracks-
Check Condition of Connected Piping and Supports-
Check Condition of Weep Holes in re-pads-
Additional comments:

Electrical, Instrumentation & Grounding Equipment
Sept./06 Check General Condition of Associated Electrical Equipment-
Check General Condition of Associated Instrumentation-
Check Grounding Connections-
Additional comments:

Auxiliary Equipment
Check Gauges and Sensor connections for Defects, Damage, Cracks & Vibration-
Check Sight Glasses for defects, Damage, Cracks & Vibration-
Check Condition and Operation of Associated Valves-
Additional comments:

Metal Surfaces
Check for Corroded Areas-
Check for Cracks at Weld Seams and Nozzles-
Check for Blistering at and below liquid Level-

Internals
Inspection conducted -
Check bubble or step trays for condition
Check vane packing for plugging or mechanical damage
Check down-comers, overflow lines.
Check weirs, baffles, mist pads and coils-
Additional Comments:

Field Inspection Report

Protective: Coatings / Insulation / Cathodic
Check for External Coating Failure-
Check for internal coating –

General Comment's: Line Heater was found to be in good general condition.

External Inspection:

- **Name plate was attached and readable.**
- **External paint was in fair condition with slight external corrosion present at TML 50.**
- **Slight surface corrosion in form of rusting.**
- **External insulation was in good shape.**
- **Shell to wall interface seal was in good shape with no signs of corrosion.**
- **Vessel is supported on saddles, shell to saddle welds were in good shape.**
- **Saddles were bolted securely to the floor and skid.**
- **All external nozzles were in good condition.**
- **Leaking gasket on Stack side flange.**
- **Flame arrestor and stack were intact and in good shape.**
- **Firetube manway covers were in place and secure.**
- **All bolting hardware was intact.**
- **Temperature and Pressure gauges were in good working order.**
- **Liquid level sight glass was in good shape with no cracks or leaks.**
- **No deflection or deformation of the shell, end plates or nozzles.**
- **50/50 top reservoir tank was in good shape.**
- **Reservoir tank thief hatch was in good working order.**
- **All associated piping was intact and secure.**
- **Vessel is grounded to the building; ground cable was in good shape.**
- **UT survey found no areas of concern, see attached UT Report.**

Internal inspection:

- **No internal inspection was carried out at this time.**

Recommendations:
Continue to carry out visual inspections and UT Corrosion surveys at the required inspection frequency.

Line Heater is fit for continued service.

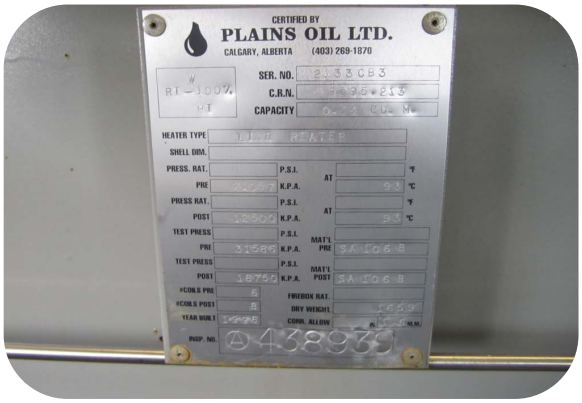
X

Digitally signed by Blair Verge
DN: cn=Blair Verge, o, ou=Verge's Inspection Services Ltd., email=bverge@telus.net, c=CA
Date: 2012.03.29 13:41:53 -06'00'

Blair Verge
Verge's Inspection Services Ltd.

Inspector(s) Blair Verge API 510 Certification #24212

Field Inspection Report



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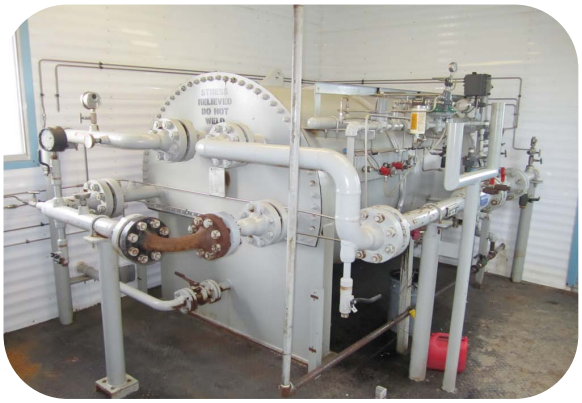
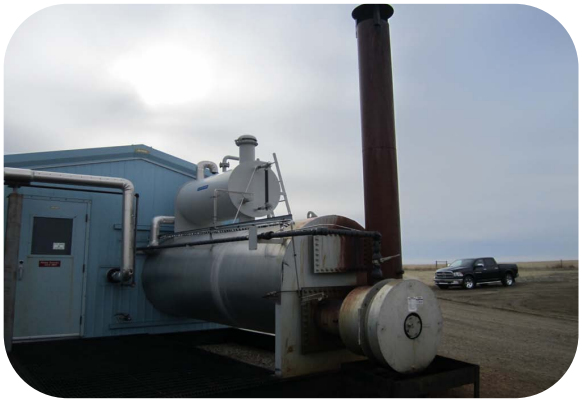


A0438939_Inlet and Outlet piping_28Mar2012



A0438939_West End view_28Mar2012

A0438939_Burner and Stack assembly_28Mar2012

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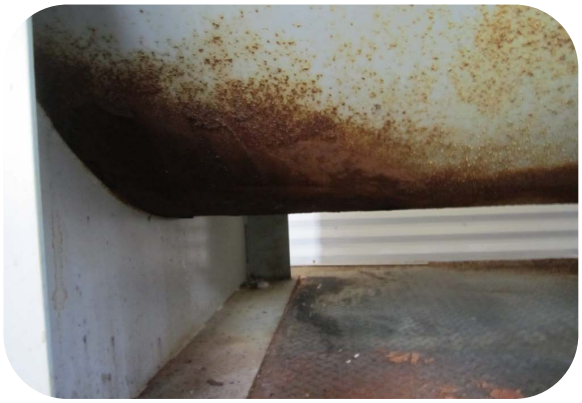
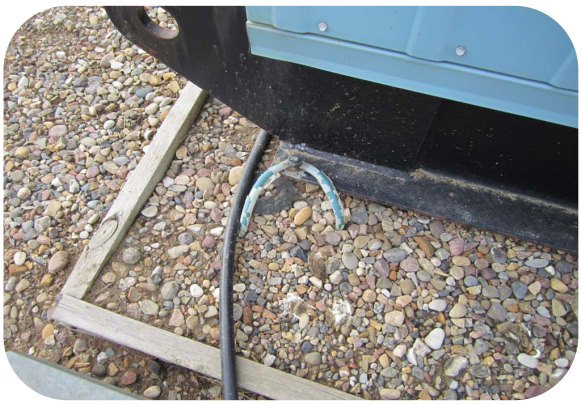
Field Inspection Report

A0438939_50,50 Resevoir tank_28Mar2012



A0438939_Surface rusting_28Mar2012

A0438939_Gasket leak on Stack_28Mar2012



A0438939_Ground cable secure_28Mar2012

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