

PRESSURE VESSEL & COLUMN INSPECTION REPORT

Date: Oct. 2, 2017

Report # : IR171002GENa

Plant	Conn Lake	Op Unit	EC-NO		System / LSD:	10-31-063-07w4	
Equipment #	66046993	Tag #	-		Asset Type	Separator	
Description	Inlet Separator		Prov. Insp. #	A	2861535	Serial #	1095 V100
Manufacturer	Plains Oil Ltd.		CRN	K8706.2		Year Built	1993
MAWP	4960	KPag	@	38	°C	MDMT	-29 °C
Code	ASME VIII	Fluid Service	Natural Gas		Sweet	PWHT	No
Internal Access	No	Insulated	No			Internal Coating	No
Operating Pressure	30		KPag	Operating Temp		10	°C

PSV DATA

Serial Number:	CE-109706-1--A10			
Manufacturer:	Farris			
Model:	26GA12-120/S6			
Set Pressure	Kpa 4516			
Capacity	SCFM 6453			
Inlet Size	mm 38			
Outlet Size	mm 63			
Service Date:	mm/yyyy 10/2014			
Location:	Inlet Separator Outlet Piping			

INSPECTION SUMMARY

External:

A visual external inspection performed to the applicable standards did not identify any concerns with the pressure boundary of this equipment, there were no significant deficiencies noted.

This equipment was in service at the time of inspection.

A thorough inspection to verify the equipment's integrity was done by VE and UT.

The nameplate is intact and legible.

There are no recommendations to be made at this time.

No NCR's were issued at this time.

The equipment can be recommended fit for service.

Internal:

There was no internal inspection performed at this time, the scope of work was for an external inspection only.

NDE:

UT was performed to confirm remaining thicknesses. The readings are within acceptable limits as per the 12.5% mill tolerance in the codes or as per the corrosion allowance if noted.

RECOMMENDATIONS


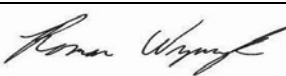
NONCONFORMANCES / INSPECTION DEFICIENCIES

INSPECTION PLANNING

Inspection Strategy	Availability	Inspection Interval	5 yrs	
Inspection Date	10/2017	Date of Last Inspection	Date of Next Inspection	10/2022

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.

VE Inspected by / Certification #	Guy Normand API 510# 23041		Date	Oct. 2, 2017
VI Inspected by / Certification #			Date	
Reviewed and Approved by	Roman Wynnyk		Date	Oct 31, 2017
Criticality Assessment Rerun		Inspection Planning Rerun		

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Assessed Next Inspection Date

DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR / IDR	Comments
V1	General Other	Good			This equipment was found to be acceptable for continued service. Any deficiencies are noted below. The nameplate is intact and legible.
V2	General Corrosion	Good			No notable corrosion was present.
V3	General Leaks	Good			No leaks were noted.
V4	Vibration	N/A			
V5	Dissimilar Flange Rating	Good			There is no dissimilar flange ratings noted on the components that are visible.
V6	Ladder/Stairway	N/A			
V7	Heads	Good			The heads are in good mechanical condition.
V8	Guy Wires	N/A			
V9	Electrical Ground	Good			The equipment is grounded through the skid package.
V10	Painted Inactive Corrosion	N/A			
V11	Coating/Painting	Good			The paint is faded, chipped and scratched.
V12	Expansion Joint or Bellows	N/A			
V13	Gauge/Site Glass	Good			The gauges are legible and appear to be functioning properly.
V14	Shell	Good			The shell is in good mechanical condition.
V15	Jacket	N/A			
V21	Support Other	N/A			
V22	Foundation	N/A			
V23	Anchor Bolts	Good			The anchor bolts are tight and secure.
V24	Saddle/Skirt	Good			The skirt is in good mechanical condition.
V25	Davit	N/A			
V26	Fireproofing	N/A			
V31	Connections Other	Good			All piping connections to the vessel are secure.
V32	Small Branches	Good			The instrumentation tubing is acceptable, no signs of leakage noted.
V33	Nozzles	Good			All visible nozzles are straight with no mechanical deficiencies noted.
V34	Manways	N/A			
V35	Reinforcing Pads	Good			The re-pads are secure and the weep holes are clear of product or debris.
V36	Inadequate Thread Engagement	Good			The thread engagement is adequate on all visible components.
V37	Bolting	Good			The visible studs / nuts are secure.
V38	Flanges	Good			All visible flanges are intact with no defects noted.
V39	Leak Clamps	N/A			
V41	Insulation Other	N/A			
V42	Damage	N/A			
V43	Penetrations	N/A	TML's		
V44	Insulation Jacket	N/A			
V45	Banding	N/A			
V46	Seals/Joints	N/A			
V51	Relief Devices Other	Good			The PSV is set to the proper pop pressure and has been serviced within an acceptable time frame.
V52	Relief Devices Corrosion	Good			No corrosion noted.
V53	Relief Devices Leaks	Good			No leaks were present.
V54	Restricted Inlet/Outlet	Good			The inlet and outlet sizes are correct with no restrictions.
V55	Manual Operation Lever	N/A			

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DETAILED INSPECTION VISUAL INTERNAL

ID	Description	Condition	Location	NCR / IDR	Comments
V1	General Other (Explain)				
V2	Corrosion (depth, length, width)				
V3	Erosion				
V4	Distortion				
V5	Blisters				
V6	Deposits				
V7	Heads				
V8	Welds				
V9	Nozzles				
V10	Shell				
V11	Gasket Surfaces				
V21	Internals Other(Explain)				
V22	Demister				
V23	Baffle/Weir				
V24	Sparger				
V25	Thermowells				
V26	Metallic Linings				
V27	Nonmetallic Linings				
V28	Trays				
V29	Tray Rings				
V30	Other: Welded Attachments				

DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR / IDR	Comments
1					
2					
3					
4					
5					

DETAILED INSPECTION UT THICKNESS

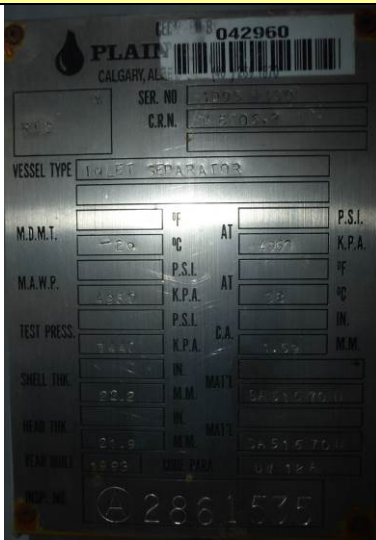
CML	Nom. Thk mm	Current Reading mm	Short Term Corr Rate	Long Term Corr Rate	Remaining Life	Comments
005	22.2	23.1				Inlet Nozzle
010	21.9	22.6				Top Head
015	22.2	22.5				Upper Shell
020	22.2	22.6				Mid Shell
025	22.2	22.7				Lower Shell
030	21.9	22.3				Bottom Head
035	21.9	22.3				Bottom Head Scan
040	6.4	5.6				Drain Nozzle
045	21.9	20.6				Outlet Nozzle

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PHOTOS



Nameplate



Overall



Top Head