

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 07-27-051-19W5M

Date: JULY 09, 2014

SAP Equipment ID: 66130683

VESSEL STATIC DATA						
Plant		Ansell Gas Plant		Op Unit		System
Prov. Insp. #		A0571635		CRN		U0833.2
Equipment Description		NGL Bullet		Serial #		H0700289
Manufacturer		Trinity Industries de Mexico		Vessel Class		
Internal Access: no		Description:		Year Built		2007
MAWP 250		PSI		@ 125		°F
CODE : U		RT : 4		PWHT : No		
Diameter 131.875 in O.D.		Length (s/s) in		OAL 1080.875 in		Horizontal
Shell	Mat'I	SA-516-70		Thickness	0.828 in	Corr Allowance mm
Head	Mat'I	SA-516-70N		Thickness	0.487 in	Corr Allowance mm
Nozzle	Mat'I			Thickness	in	Corr Allowance mm
Internal Coating: YES NO		Internal Clad : YES NO		Capacity		m3
Manway : no		Inspection Port : no		Saddle		
Nozzle Rating 150		lb ANSI		Painted : yes		Insulated no
PROCESS DATA						
Product Description		NGLs		Sweet		
Operating Pressure		70		PSI		Operating Temperature 68 °F
PSV STATIC DATA – East PSV						
Serial No.	Location	Set Pressure	Capacity SCFM / Lbs/Hr / GPM	Manufacturer	Model / Type	Service Date / Company
C06-38617	Off top east shell	227psi	44863scfm	Crosby	26310-46/S1	15-Sep-11. Wizard. Tag PSV-805
PSV DETAILS						
	Type (Thread/Flange)		ANSI Rating		Size (in)	
PRD Inlet	Flanged				4"	
PRD Outlet	Flanged		150		6"	
NDE Equipment records						
Procedure#	Description	Manufacturer	Model#	Serial#	Due Date	

INSPECTION SUMMARY

60,000 WG. Hemi heads.

A visual external inspection was conducted on vessel while in operation. Beside plant 2 refridge building. Dataplate secure and legible. A# stamped in vessel shell above d/p. Vessel and piping are in good condition, piping well supported. Paint in good condition, no significant deterioration noted. Ground cable securely attached directly to saddle support. Saddles seal welded, supports securely bolted down, no play for thermal expansion. Ladder and platform in good condition and securely attached, safety gate present at platform opening to ladder. There are 2 PSVs on top shell. No access to west PSV. East PSV service up to date, set below MAWP, vents to atmosphere. There is a weather cap present at end of vertical PSV discharge pipe and a drill hole at bottom of 90 elbow. Inlet isolation valve on both PSVs carsealed open. UT inspection performed 2014 by Streamline Inspection.

Vessel was found to be in good condition and fit for continued service.

RECOMMENDATIONS

Review UT survey results.
Check PSV records for set pressure / service date of second PSV.

NONCONFORMANCES / INSPECTION DEFICIENCIES

No non-conformances were noted during visual external inspection.

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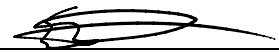
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INSPECTION PLANNING

Inspection Strategy	Availability	Inspection Interval
Inspection Date <u>July 09, 2014</u>	Date of Last Inspect	Date of Next Inspect

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	<u>Ed Tymensen</u>		Date	<u>July 09, 2014</u>
Company	<u>Streamline Inspection</u>	PESL #	<u>000711</u>	API # <u>27479</u>
Reviewed and Approved by			Date	
		PESL #		API #
Criticality Assessment Rerun		Inspection Planning Rerun		
Assessed Next Inspection Date				

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DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	Good			Overall
V2	General Corrosion	n/a			No corrosion noted
V3	General Leaks	n/a			No leaks noted
V4	Vibration	n/a			
V5	Dissimilar Flange Rating	Good			Similar ratings
V6	Ladder/Stairway	Good	Ladder platform		Securely attached
V7	Heads	Good			No corrosion or damage noted
V8	Guy Wires	n/a			
V9	Electrical Ground	Good	Attached to saddle supports		Ground cable present and secure
V10	Painted Inactive Corrosion	n/a			
V11	Coating/Painting	Good			No significant damage or deterioration noted
V12	Expansion Joint or Bellows	n/a			
V13	Gauge/Site Glass	Good	Psi, temp, level		Gauges clear and legible
V14	Shell	Good			No corrosion or damage noted
V15	Jacket	n/a			
V21	Support Other (Please explain)	Good	Piping		Well supported
V22	Foundation	Good			Vessel on steel beams / piles
V23	Anchor Bolts	Good			Tight and secure both ends, no play for thermal expansion
V24	Saddle/Skirt	Good	Saddle		Bolted to beams, seal welded
V25	Davit	n/a			
V26	Fireproofing	n/a			
V31	Connections Other (Please explain)	Good			All connections appear secure
V32	Small Branches	n/a			
V33	Nozzles	Good			No corrosion or damage noted
V34	Manways	n/a			
V35	Reinforcing Pads	Good			Weepholes present, free of debris, no evidence of leaks
V36	Inadequate Thread Engagement	Good			Adequate engagement
V37	Bolting	Good			All bolting tight and secure, no corrosion of threads
V38	Flanges	Good			No leaks or corrosion
V39	Leak Clamps	n/a			
V41	Insulation Other (Please explain)	n/a			
V42	Damage	n/a			
V43	Penetrations	n/a			
V44	Insulation Jacket	n/a			
V45	Banding	n/a			
V46	Seals/Joints	n/a			
V51	Relief Devices Other (Please explain)	Good	Top shell – 2 PSVs		East PSV Service up to date, set below MAWP
V52	Corrosion	n/a			None noted
V53	Leaks	n/a			None noted
V54	Restricted Inlet/Outlet	n/a			
V55	Manual Operation Lever	Good	Both PSVs		Inlet isolation valves carsealed open

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DETAILED INSPECTION VISUAL INTERNAL

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

DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

DETAILED INSPECTION UT THICKNESS

CML	Nom. Thk	Current Reading	Short Term Corr Rate	Long Term Corr Rate	Remaining Life	Comments

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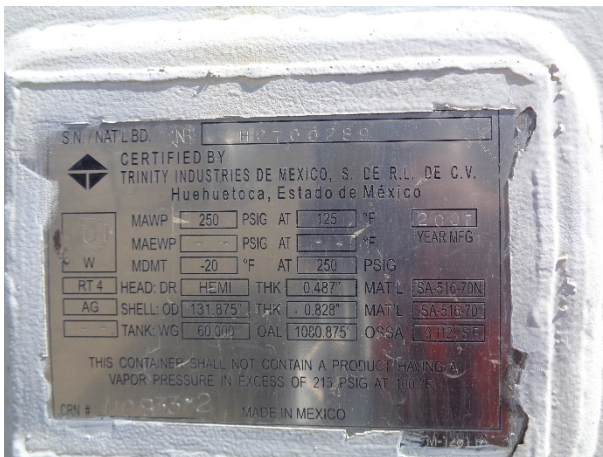
PHOTOS



LSD sign



A# STAMPED ABOVE DATAPLATE



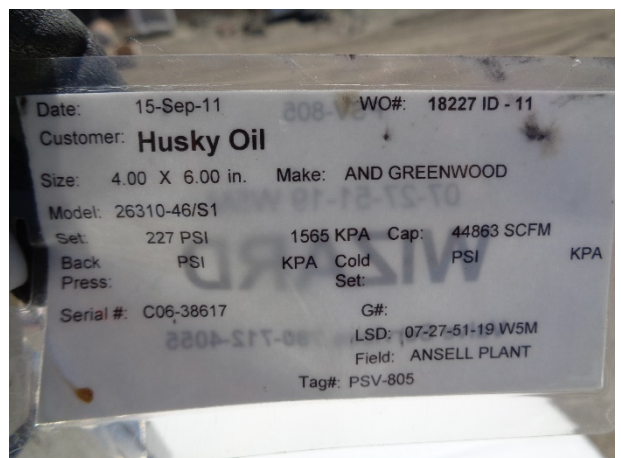
DATAPLATE



VESSEL OVERVIEW



LADDER / PLATFORM



EAST PSV SERVICE TAG

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PHOTOS



EAST PSV OVERVIEW



WEST PSV – NO ACCESS