

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD:07-27-051-19W5

Date: June 3, 2014

SAP Equipment ID: 66147737

VESSEL STATIC DATA					
Plant ANSEL		Op Unit FH-AN		System	
Prov. Insp. # 586795		CRN T4574.213		Equip Tag # K-201, V-1	
Equipment Description SUCTION SCRUBBER			Serial # C250777A-2		
Manufacturer HENRY TECK			Vessel Class		
Internal Access: YES NO Description:			Year Built 2006		
MAWP 245		kPa / PSI @ 250		°C / °F	
MDMT -20		°C / °F		MDMT -20 °C / °F	
CODE : UM U U2		RT : 1 2 3 4		PWHT : NO	
Diameter		Length (T/T) mm/in		OAL mm / in	
Shell Mat'l		Thickness		mm / in	
Head Mat'l		Thickness		mm / in	
Nozzle Mat'l		Thickness		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	

PROCESS DATA			
Product Description		Sweet Sour	
Operating Pressure kPa / PSI		Operating Temperature °C / °F	

PSV STATIC DATA								
Serial No.	Location	Size		Set	Capacity	Manufacturer	Model / Type	Service Date
		Inlet	Outlet	Pressure	SCFM / Lbs/Hr / GPM			

NDE Equipment records					
Procedure#	Description	Manufacturer	Model#	Serial#	Due Date

INSPECTION SUMMARY

VISUAL INTERNAL:
THERE ARE NO SIGNS OF CORRSOSION. VESSEL IS IN GOOD CONDITION
ALL FILTER RODS ARE SECURE AND IN GOOD CONDITION
DEFLECTOR PLATE IS IN GOOD CONDITION
MANWAY FLANGE IS FREE OF SIGNS OF CORROSION
THERE IS A DEMISTER PAD BELOW THE FILTER HOUSING THAT CAN NOT BE REMOVED. DEMISTER LOOKS TO BE IN GOOD CONDITION

VISUAL EXTERNAL:
NAME PLATE IS SECURE AND LEGIBLE
PAINT IS IN GOOD CODITION
INSULATION IS ON OK CONDITION
VESSEL IS GROUNDED THROUGH SKID

VESSEL IS FIT FOR FURTHER SERVICE

RECOMMENDATIONS

NONE

NONCONFORMANCES / INSPECTION DEFICIENCIES

NONE

INSPECTION PLANNING

Inspection Strategy	Availability	OFFLINE	Inspection Interval	5
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Inspection Date	<u>June 3, 2014</u>	Date of Last Inspect	_____	Date of Next Inspect	<u>2019</u>
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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	_____	_____	Date	_____
Reviewed and Approved by	_____	_____	Date	_____
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)	OK			
V2	General Corrosion	OK			
V3	General Leaks	OK			
V4	Vibration	OK			
V5	Dissimilar Flange Rating				
V6	Ladder/Stairway	OK			
V7	Heads	OK			
V8	Guy Wires				
V9	Electrical Ground	OK			
V10	Painted Inactive Corrosion	OK			
V11	Coating/Painting	OK			
V12	Expansion Joint or Bellows				
V13	Gauge/Site Glass	OK			
V14	Shell	OK			
V15	Jacket				
V21	Support Other (Please explain)				
V22	Foundation	OK			
V23	Anchor Bolts	OK			
V24	Saddle/Skirt	OK			
V25	Davit				
V26	Fireproofing				
V31	Connections Other (Please explain)				
V32	Small Branches				
V33	Nozzles	OK			
V34	Manways	OK			
V35	Reinforcing Pads				
V36	Inadequate Thread Engagement				
V37	Bolting	OK			
V38	Flanges	OK			
V39	Leak Clamps				
V41	Insulation Other (Please explain)				
V42	Damage				
V43	Penetrations				
V44	Insulation Jacket				
V45	Banding	OK			
V46	Seals/Joints	OK			
V51	Relief Devices Other (Please explain)	OK			Last serviced 2011
V52	Corrosion	OK			
V53	Leaks	OK			
V54	Restricted Inlet/Outlet				
V55	Manual Operation Lever				

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DETAILED INSPECTION VISUAL INTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	OK			
V2	Corrosion (depth, length, width)				
V3	Erosion				
V4	Distortion				
V5	Blisters				
V6	Deposits				
V7	Heads	OK			
V8	Welds	OK			
V9	Nozzles	OK			
V10	Shell	OK			
V11	Gasket Surfaces	OK			
V21	Internals Other (Please explain)				
V22	Demister	OK			
V23	Baffle/Wier				
V24	Sparger				
V25	Thermowells	OK			
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	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

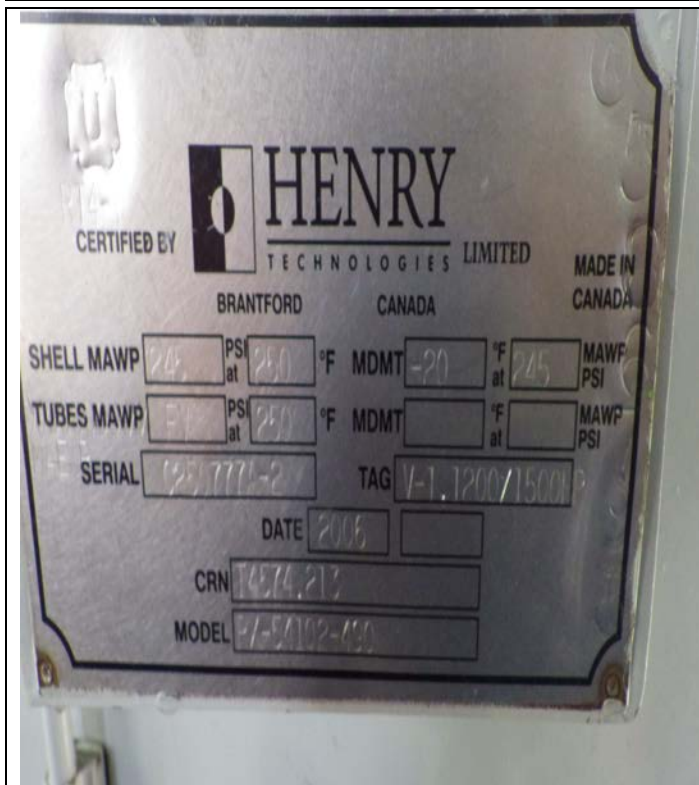
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PHOTOS



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