

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD:07-27-051-19W5 Date: 2014-06-04 SAP Equipment ID: 66128609

VESSEL STATIC DATA										
Plant	ANSEL GAS I	PLANT Op U	Jnit N	/A			Syste	m	N/A	
Prov. Insp. # A0571608			CRN U0192.213			Equip	Equip Tag # 20-V-001			
Equipment De	escription	INLET SEPARA	EPARATOR			Serial	Serial # 12306200			
Manufacturer	•	TOROMONT P	ROCESS	SYSTEM	1S		Vesse	el Class	PRESSUR	E VESSEL
Internal Acce	ss: X YES	NO Descrip	tion: 20	" OD MA	ANWAY Year Built 2007					
MAWP 390	0	kPa / PSI	@	150	4	°C / °F	MDM	Γ	-20	°C /°F
CODE: UM	U U2	RT:	1 2	3 4			PWH	Γ: N/A		
Diameter 48	3" OD Le	ngth (T/T)	N/A ı	mm/in C)AL 192	mm / in	Vertic	al	Horizon	tal
Shell Mat	'I N/A	Thic	kness		N/A	mm / in	Corr A	llowand	e N/A	າm / in
Head Mat	'I N/A	Thic	kness		N/A	mm / in	Corr A	llowand	ce N/A	າm / in
Nozzle Mat	'I N/A	Thic	kness		N/A	mm / in	Corr A	llowand	e N/A	nm / in
Internal Coating: YES NO		Inter	Internal Clad: YES- NO			Capa	city	N/A	m ³	
Manway:	YES NO	Insp	ection F	Port : YI	ES I	10	Skirt	Legs	- Saddle	
Nozzle Rating	g 600 II	ANSI Pain	ted :	YE	S N	IO	Insula	ated	YES	NO
	<u>.</u>		PRC	CESS D	DATA					
Product Desc				Sweet Sour						
Operating Pre	essure N/A	k	<u> Pa / PS</u>		•	ing Tem	perature	N/A	, c	C/°F
				STATIC				_		
Serial No.	Location	Set	Ca	pacity	Manufa	acturer	Model /	Туре	Service	
484642-18-A10	INLET PIPING	Pressure	GPM	00514	EADD	10	00.14.40	A 400	Comp	
404042-10-A10	390 PSI		980 SCFM FARRIS PSV DETAILS			26JA12	A-120	WIZARD V	ALVE	
Type (Thread/Flar			·					Size (mm	١	
PRD Inlet	FLANGE	iread/r larige/	300				76.2	Oize (iiiiii	,	
PRD Outlet FLANGE			150				101.6			
NDE Equipment records										
Procedure#	Description	Manufacture					Serial#	erial# D		Date
MT-1 WFMT CONTO			ROBES	B-300			20	20832 03-SEPT-14		PT-14

INSPECTION SUMMARY

EXTERNAL INSPECTION:

- 1) DATA PLATE IS SECURED IN PLACE AND IS LEGIBLE
- 2) SADDLE IN SECURED TO FOUNDATION AND DIRECTLY GROUNDED.
- 3) PSV IS LOCATED ON THE INLET PIPNG AND HAS AN ISOLATION VALVE THAT IS CARSEALED IN THE OPEN POSITION.
- 4) ATTACHED PIPING HAS SOME MINOR COATING DAMAGE, NO CORROSION IS PRESENT.
- 5) PRESSURE GAUGE. TEMPERATURE GAUGE AND SIGHT GLASS ARE CLEAN. CLEAR AND VISIBLE.
- 6) ALL PIPING CONNECTIONS ARE PROPERLY FASTENED, NO EVIDENCE OF LEAKS.
- 7) NO DEFORMATION OR CORROSION FOUND ON THE SHELL OR HEADS.

INTERNAL INSPECTION:

- 1) 20" MANWAY UTILIZED FOR THE INTERNAL INSPECTION.
- 2) ALL ACCESSIBLE SHELL AND HEAD WELDS ARE TO IN GOOD CONDITION, WITH NO RELEVANT SIGNS OF DETERIORATION. WET FLUORESCENT MAGNETIC PARTICLE INSPECTION (MPI) COMPLETED ON 24" OF THE CIRC AND LONG SEAMS AT THE "T" INTERSECTIONS. REFER TO ATTACHED MPI REPORT #66128609 EQ INSPECTION REPORT 2014-06-04 MT A0571608 INLET SEPARATOR.
- 3) NO BLOCKAGES FOUND IN THE ACCESSIBLE NOZZLES.
- 4) NO EVIDENCE OF CORROSION OR EROSION FOUND ON THE SHELL AND HEADS.
- 5) INTERNAL COMPONENTS ARE IN GOOD VISUAL CONDITION.

SEPARATOR IS FIT FOR CONTINUED SERVICE.



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	RECOMMENDA	TIONS		
N/A				
	ONCONFORMANCES / INSPE	CTION DEFICIENCIES	3	
N/A				
	INCRECTION DI	MANIAGO		
Inspection Strategy	INSPECTION PLA Availability		on Interval	
Inspection Date	Date of Last Inspect	Date of	Next Inspect	
The signatures below certify that inspecti	REPORT CERTIFI ons/tests have been completed in		entified inspection strategy and t	hat
the specified equipment is considered fit	for service until the date of next in	nspection.		
In an artist by	OURTIO OINOLAIR	Curtor Dines	- Day 0044 00 04	
Inspected by	CURTIS SINCLAIR	0. 20	Date	
Company	STREAMLINE INSPECTION	PESL # 00541	API # <u>35229</u>	
Reviewed and Approved by			Date	
		PESL#	API #	
Criticality Assessment Rerun		nspection Planning Re	un	
Assessed Next Inspection Date				



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DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	GOOD			IN GOOD OVERALL CONDITION
V2	General Corrosion	GOOD			NONE PRESENT
V3	General Leaks	GOOD			NO EVIDENCE OF LEAKS NOTED
V4	Vibration	GOOD			NO VIBRATION ISSUES FOUND
V5	Dissimilar Flange Rating	GOOD			NO DISSIMILAR FLANGE RATING
V6	Ladder/Stairway	N/A			N/A
V7	Heads	GOOD			NO DEFORMATION OR CORROSION
V8	Guy Wires	N/A			N/A
V9	Electrical Ground	GOOD			DIRECT GROUNDING
V10	Painted Inactive Corrosion	GOOD			NONE
V11	Coating/Painting	GOOD			NO RELEVANT DAMAGE
V112	Expansion Joint or Bellows	N/A			N/A
V13	Gauge/Site Glass	GOOD			CLEAN, CLEAR AND VISIBLE
V14	Shell	GOOD			NO DEFORMATION OR CORROSION
V15	Jacket	N/A			N/A
V21	Support Other (Please explain)	GOOD			SECURED IN PLACE
V22	Foundation	GOOD			INTACT
V23	Anchor Bolts	GOOD			PROPERLY FASTENED
V24	Saddle/ Skirt	GOOD			NO DEFORMATION
V25	Davit	N/A			N/A
V26	Fireproofing	N/A			N/A
V31	Connections Other (Please explain)	GOOD			PIPING CONNECTIONS ARE PROPERLY FASTENED TOGETHER
V32	Small Branches	GOOD			NO EVIDENCE OF LEAKS FOUND
V33	Nozzles	GOOD			PROPERLY FASTENED
V34	Manways	GOOD			NO CORROSION OR WEAR PRESENT
V35	Reinforcing Pads	GOOD			WEEPING HOLES PRESENT
V36	Inadequate Thread Engagement	GOOD			ALL THREADS ADEQUATELY ENGAGED
V37	Bolting	GOOD			NO CORROSION OR WEAR
V38	Flanges	GOOD			NO CORROSION OR WEAR PRESENT
V39	Leak Clamps	N/A			N/A
V41	Insulation Other (Please explain)	N/A			N/A
V42	Damage	N/A			N/A
V43	Penetrations	N/A			N/A
V44	Insulation Jacket	N/A			N/A
V45	Banding	N/A			N/A
V46	Seals/Joints	N/A			N/A
V51	Relief Devices Other (Please explain)	GOOD			LAST SERVICED IN 2011 BY WIZARD VALVE
V52	Corrosion	GOOD			NONE
V53	Leaks	GOOD			NONE
V54	Restricted Inlet/Outlet	GOOD			ISOLATION VALVE CARSEALED IN THE OPEN POSTION
V55	Manual Operation Lever	N/A			N/A



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DETAILED INSPECTION VISUAL INTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	GOOD			NO CORROSION PRESENT
V2	Corrosion (depth, length, width)	GOOD			NONE
V3	Erosion	GOOD			NONE
V4	Distortion	GOOD			NO DISTORTION FOUND
V5	Blisters	GOOD			NONE
V6	Deposits	GOOD			NONE
V7	Heads	GOOD			NO CORROSION OR DEFORMATION
V8	Welds	GOOD			WET FLUORESCENT MPI COMPLETED ON WELDS. REFER TO ATTACHED REPORT
V9	Nozzles	GOOD			NO BLOCKAGES FOUND
V10	Shell	GOOD			NO CORROSION OR DEFORMATION
V11	Gasket Surfaces	GOOD			NO WEAR OR CORROSION PRESENT
V21	Internals Other (Please explain)	GOOD			
V22	Demister	N/A			N/A
V23	Baffle/Wier	GOOD			NO DAMAGE
V24	Sparger	N/A			N/A
V25	Thermowells	N/A			N/A
V26	Metallic Linings	N/A			N/A
V27	Nonmetallic Linings	N/A			N/A
V28	Trays	N/A			N/A
V29	Tray Rings	N/A			N/A
V30	Other Welded Attachments	GOOD			NO DAMAGE

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



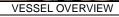




DATA PLATE



VESSEL OVERVIEW





VESSEL BOOT



ATTACHED PROCESS PIPING AND VALVES



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SEPARATOR PSV

PSV DATA PLATE





PSV SERVICE TAGE (1)

PSV SERVICE TAG (2)





20" MANWAY FLANGE SEALING SURFACE

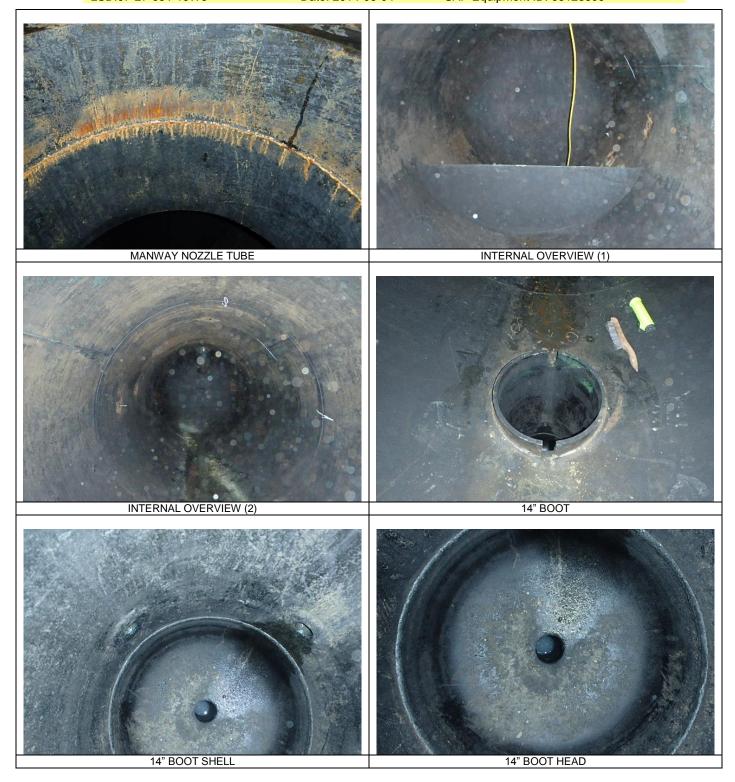


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