

	B W	anal Occurren					
Location		essel Survey	e4 NI ~		D7 -	20405	C 000707 CD D0
Location: Client Name:	Point Tupper	EM&IJ Repor					C-090707-CR-R0
		Client Ref No			_		912-002-D2105C
Client Rep.:		Inspector Na			_	n Robi	
WO No.:		Inspection D	ate:			07, 20	JU9
SPO No.:	DT 0000 D04050 INT 04	System:	la.		Buta		40
Workscope No.:	PT-2009-D2105C-INT-01	EM&IJ Job N		.4!		0132.	
Tag No.:	D2105C	Equipment D				ine Sto	orage Vessel D-2105C
Date of Last Inspection:		Previous Rec	coras	Seen:	N/A		
Drawing No.:	LA-B23-F-22-8062-01-Z4, 98-CA-						
	<u> </u>	Summary		Come	J:4: a.a		Comments
	Item				dition		Comments
External Ladders, Access a			Good	Fair	Poor	NA	Internal inspection only
connected to, or bearing on t or deterioration.	ders, stairways, platforms and walk he vessel for signs of corrosion, missi	ng components,					
2. If applicable, check vesse deflection, and/or corrosion.	I supports for signs of deterioration, se	ttlement,					
3. If applicable, check coatin blistering, and/or coating dish	gs for signs of deterioration, rusts spot condment.	s, cracks,					
4. a) For horizontally mounted	d vessels, check for signs of trapped m n cradle support and vessel shell.	noisture,					
b) For vertically mounted v condensation, resulting in condensation.	ressels on skirt support or support legs rrosion on the bottom cap/ inside skirt support legs to the bottom cap.						
5. Check the grounding conn tight and ground wires in goo	ection is correctly installed, with cable d condition.	connections					
	ns for any signs of corrosion or mecha						
7. If applicable, check the verifree.	ssel sliding foot free to move and hold-	down bolts are					
Vessel External Surfaces			Good	Fair	Poor	NA	Internal inspection only
1. Check permanent identify required information.	ing tags on vessel are legible and pres	ent the					
	I bolts/studs extend fully through their not less than one thread; flange bolts h						
elements and connections for	connections are in full contact with cor r any signs of rust, corrosion or mecha	nical damage.					
4. If applicable, check insulat breakage.	ion support bands and clips for signs o	f corrosion or					
5. Check all welded seams a corrosion, cracking, pitting or	nd connections for any signs of deterio other sign of failure. Specify.	ration,					
6) If applicable, check insulat ingress of water. Record insu	ion type, condition for any insulation da llation type.	amage and					
coatings for any signs of leak other forms of deterioration.	n of the exterior surface of the vessel, i s, cracks, deformation, distortion, pittir If so, specify type, location and extent.	ng, corrosion or					
	holes in reinforcement plates are not p	lugged.	Cood	Foir	Boss	NIA	Internal inapportion and
External Piping / Instrument		rah raa ar d	Good	Fair	Poor	NA	Internal inspection only
other appurtenances, show s	I trim, such as gauges, sight glasses, vigns of deterioration, or missing compo	onents, etc.					
number of PSV and calibration							
	d other connections, including the surr distortion or cracks, wall loss, leakage, and location.						



Inspection Summary					
Item		Conc	lition		Comments
Vessel Internal Surfaces	Good	Fair	Poor	NA	
1. Check for signs of corrosion, erosion, cracks, blisters, pitting, distortion, or other forms of deterioration on the internal vessel surfaces. If any, specify type, location and extent.	\boxtimes				2 areas of grinding marks were located between circ weld 6 and 7 from south end
2. Check all welded joints for any signs of deterioration, corrosion, cracking, pitting or other sign of failure. Specify.	\boxtimes				All welded seams in good condition
3. Check all man-ways, nozzles and connections for distortion, cracks, corrosion, wall loss and other type of defects or failures. If any defects are noted, specify type, extent and location.	\boxtimes				
4. If applicable, compare the results of performed wall thickness survey with previous reports for areas of wall thickness loss. Identify areas on inspection report.				\boxtimes	UT measurements carried out as part of the external inspection completed prior to the internal inspection
5. Where applicable, check vessel internal cladding for signs of bulging, buckling, cracks, holes, etc. If any, specify type, location and extent.					Vessel had no cladding
6. Where applicable, check the vessel internal coating for signs of deterioration, such as: rust spots, blisters, coating disbandment, etc. If any, specify type, location and extent.					Vessel not coated
7. If possible, check gasket seals on all flanges for signs of corrosion and/or mechanical damage.				\boxtimes	Vessel fully isolated with spades fitted during inspection
Internal Equipment/Piping /Supports	Good	Fair	Poor	NA	
1. Where applicable, check supports for vessel's internal equipment and components for signs of corrosion, distortion and deterioration.				\boxtimes	
2. If applicable, check vessel's internals for signs of corrosion, distortion and deterioration, missing components etc.	\boxtimes				Vortex breaker in good condition
3. If applicable, check if bolted connections are in full contact with connected elements and connections are free from rust or other deleterious material that may prohibit full contact.					
Detail of Findings Instructions: With the aid of Drawing(s), Sketch(es) and	Photo	(s) de	scribe	findin	gs
A thorough inspection was carried out in accordance with API 510 and 572.					
The vessel was in good condition with no evidence of any distortion or cracking on to the transfer of the vessel was in good condition with no evidence of any distortion or cracking on the two areas of grinding marks, presumably from the original construction stage were circumferential weld seams from the south end of the vessel. Facing north, the area and were approximately 260mm x 80mm and 250mm respectively, both less than 1 A Magnetic Particle Inspection was carried out on sample areas of circumferential a intersection of the welds were tested. In addition, a Magnetic Particle Inspection was welds. No defect indications noted.	located s were mm dea	on the located ep.	e shell t d just b al welds	petween efore the second secon	en the 6 th and 7 th the 6 O'clock position ere accessible, the

Detail of Findings

Instructions: With the aid of Drawing(s), Sketch(es) and Photo(s) describe findings

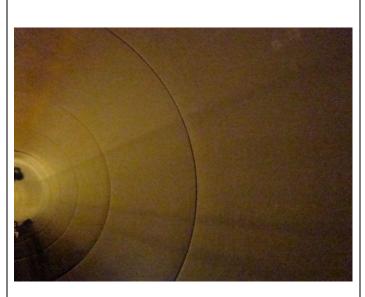
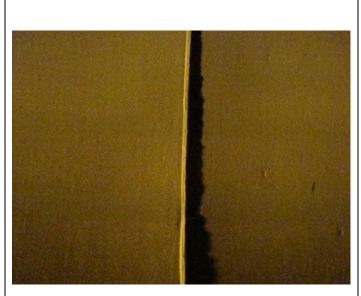




Photo 1 – View looking south on side shell 3 o'clock

Photo 2 – View looking at south dome to shell weld



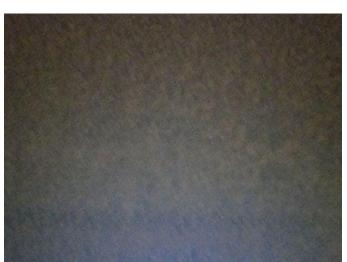


Photo 3 - Typical circ weld

Photo 4 - Typical shell plating

Detail of Findings

Instructions: With the aid of Drawing(s), Sketch(es) and Photo(s) describe findings





Photo 5 – View looking at top nozzles, south end

Photo 6 - View of south bottom nozzle N6





Photo 7 – View of south bottom nozzles N4B & N3B

Photo 8 – Vortex breaker above nozzle N2



Detail of FindingsInstructions: With the aid of Drawing(s), Sketch(es) and Photo(s) describe findings



Photo 9 - Grind marks between 6 and 7 circ welds



List of Attachments

Attachment 1: PT-D2105C-090706-NE-MPI (hinges)

Attachment 2: PT-D2105C-090707-NE-MPI

Attachment 3: 98-CA-399735-1E-4

End of Report.



	Magnetic Pa	rticle Inspection		
Location:	Point Tupper	EM&I J Report No.:	PT-D21	05C-090706-NE-MPI
Client Name:	Exxon Mobil Sable	Client Ref No.:	PT-115	64912-001-D2105C
Client Rep.:	Dale Groves	Inspector Name:	Neil En	glish
WO No.:	11564912	Inspection Date:	July 6, 2	2009
SPO No.:	4501905471	Inspection Time:	Various	
Workscope No.:	PT-2009-D2105C-INT-01	System:	Butane	Storage Vessel D-2105C
Previous Report No.	NA	EM&I J Job No:	EMJ013	32.43
Ref. Drawing No.:	DS-D2105C-01	Item Inspected:	D-2105	С
Technician Certifications:	CGSB MPI LVL 2	Certification Expiry D	ate:	December 31, 2011
Inspection Code: ASI	ME VIII	Inspection Procedure	: 1	MT401ASME
Acceptance Criteria: AS	TM Section III			
Material: C/S Surface (Condition: Wire Brush Cle	eaned Temp.: Ambier	nt Field	d Indicator:
Lighting Type: Natural	Black Light S/N:	NA Light I	_evel:	1000 LUX
Contrast: White Manufa	acturer: Ardrox	Type: 8901W		Batch: 65082407
Ink: Manufa	acturer: Ardrox	Type: 8031, Black Ink		Batch: 32111507
Equipment: Type: Electro	Spec ES-X S/N : 12768	Calibration Due: 10 Lb (Cal Lift	Current Type: AC

	lı	nspection Summa	ry
Restriction?	C Yes	No	Comments:

Comments:

Black on white Magnectic Particle Inspection was conducted on Butane Storage Vessel D-2105C on the 24" manway hinges.

At time of inspection, no relevant indicators were observed.

Foil Strip Type 1 Indicator (brass finish) was used to test sensitivity.

End of Report

Inspector Name:	Neil English	Signature:	See Field Copy	Date:	
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			MPI S	Survey		
Location:		Point Tupper	ſ	EM&IJ Report No.:	PT-D2	2105C-090707-NE-MPI
Client Name:		Exxon Mobil	Sable	Client Ref No.:	PT-11	564912-002-D2105C
Client Rep.:		Dale Groves		Inspector Name:	Neil E	nglish
WO No.:		11564912		Inspection Date:	July 0	7, 09
SPO No.:		4501905471		Inspection Time:	Variou	ıs
Workscope No.:		PT-2009-D2	105C-INT-01	System:	Butan	е
Previous Report	No.	N/A		EM&IJ Job No:	EMJ0	132.43
Ref. Drawing No).:	98-CA-3997	35-1E-4			
Technician Certi	ifications:	CGSB MPI L	.VL 2	Certification Expiry Date	: :	December 31, 2011
Inspection Code):	ASME VIII		Inspection Procedure:		MT401ASME
Material:		C/S		Surface Condition:		Wire brush cleaned
Consumables:	Contrast:	White	Type: 8901W	Manufacturer: Ardrox		Batch: 65082407
Equipment:	Type: Election	ctro Spec	S/N: 12764	Calibration Due: 10 Lb C	al lift	Current Type: AC

Inspection Summary

Comments:

Black on white Magnetic Particle Inspection was conducted on the butane storage vessel D 2105C. Nozzles N6, N5B, N4B, N5, N10 and M were inspected. Also, two foot spot checks on every second circular seam were inspected in the 3, 6, and 9 O'clock positions, as well as any accessible Tee joint.

At time of Inspection no relevant Indications were observed.

Foil strip Type 1 indicator (Brass finish) used to test sensitivity.

Neil English CGSB: #11752

<u>Ink</u>

Manufacturer: Ardrox Type: 8031 Black Ink

Solution: Prepared bath, Aerosol

Batch:32111507

End of Report

Inspector Name: Neil English Signature: See field report Date: July-7-09
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