

TANK INSPECTION REPORT

Report # **TK- ET10AUG2015d**

Inspector: Ed Tymensen,
API 510 #27479, API 653 # 50479



Reference Inspection Report # _____

Facility	<u>Drayton Valley</u>	Location	<u>Warehouse / Boneyard</u>	Date	<u>Aug 10, 2015</u>
Serial #	<u>STTK-QG-T2-15574</u>	PW Equipment #	<u>PWA - 20729</u>	Capacity	<u>400 bbl</u>
Manufacturer	<u>Bilton</u>	Year	<u>2011</u>	Product Stored	_____
Tank Location	Construction <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass Other: _____				

Thickness: **Floor** 3/16" 1/4" 5/16" **Shell** 1/8" 3/16" 1/4" **Roof** 1/8" 3/16" 1/4"

FLOOR

External Condition Satisfactory Unsatisfactory Inspection Not Performed
 Internal Condition Satisfactory Unsatisfactory _____
 Bottom Plate Projection Satisfactory Unsatisfactory Not visible, foam insulated
 Internal Coating Condition Satisfactory Unsatisfactory N/A
 Floor Leaking? Yes No _____
 UT Inspected Satisfactory Unsatisfactory UT Inspection Not Performed

Comments/Recommendations: Floor underside 100% visible. No corrosion or damage noted. Floor topside coated, coating in good condition. One small coating failure noted on floor longseam, no corrosion at failure location. UT scans found no evidence of wall thinning.

ROOF

External Condition Satisfactory Unsatisfactory Roof Leaking? Yes No
 External Coating Condition Satisfactory Unsatisfactory Vented? Yes No
 Internal Condition Satisfactory Unsatisfactory
 Internal Coating Condition Satisfactory Unsatisfactory N/A

Random Roof Plate UT Readings (inches)

Location	1	2	3	4	5	6	7	8	9	10

Comments/Recommendations: Roof foam insulated on external side. No visual performed. Roof coated internally, coating in acceptable condition, no signs of failure noted.

SHELL

External Condition Satisfactory Unsatisfactory Shell Leaking? Yes No
 External Coating Condition Satisfactory Unsatisfactory Nozzles Back Welded? Yes No
 Internal Condition Satisfactory Unsatisfactory
 Internal Coating Condition Satisfactory Unsatisfactory N/A

Manual Shell Plate UT Readings (inches)

Location	1	2	3	4	5	6	7	8	9	10
North	0.231"	0.230"	0.234"	0.225"	0.226"	0.220"	0.216"	0.221"	0.219"	0.222"
East	0.236"	0.238"	0.235"	0.228"	0.229"	0.232"	0.233"	0.229"	0.235"	0.230"
South	0.219"	0.225"	0.223"	0.228"	0.230"	0.225"	0.218"	0.220"	0.221"	0.221"
West	0.225"	0.221"	0.215"	0.219"	0.225"	0.228"	0.224"	0.226"	0.224"	0.223"

Comments/Recommendations: Shell foam insulated externally. No visual performed. Foam insulation in good condition. Shell coated internally, with no failures noted.

NOZZLES

External Condition Satisfactory Unsatisfactory Inspection Not Performed
 Internal Condition Satisfactory Unsatisfactory
 Internal Coating Condition Satisfactory Unsatisfactory N/A

Nozzle and Manway External UT Thickness Results

Description	Size (inches)	Location	Re-pad		Neck Thickness (inches)				Center Line
			Yes	No	0°	90°	180°	270°	
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
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			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					

Note: Location starts at 0 from nameplate manway going clockwise.

Comments/Recommendations: Nozzles foam insulated externally. Nozzles coated internally. No coating failures, corrosion or damage noted internally. One coating failure on manway found, no corrosion at failure location.

Burner Tube Satisfactory Unsatisfactory N/A
Ladder Condition Satisfactory Unsatisfactory Warning Sign? Yes No
Gauge Board Satisfactory Unsatisfactory N/A
Anode Condition Satisfactory Unsatisfactory N/A
Valves Satisfactory Unsatisfactory N/A Clip Gate Valves Present Yes No
Piping Satisfactory Unsatisfactory Inspection Not Performed
Envirobox Satisfactory Unsatisfactory N/A
Loading Envirobox Satisfactory Unsatisfactory N/A
Tank Above Grade Satisfactory Unsatisfactory Tank skidded
Visual Leak Detection Satisfactory Unsatisfactory
Impervious Liner Satisfactory Unsatisfactory N/A
High Level Control Satisfactory Unsatisfactory N/A
Dike Satisfactory Unsatisfactory Tank in boneyard

Tank Suitable for Continued Service Yes No Recommended Reinspection Period 5 years

Comments/Recommendations: Tank was inspected in Drayton Valley Boneyard.
 - Tank is foam insulated externally preventing external inspection of tank surface. Insulation in good condition.
 - Tank is skidded, floor underside 100% visible. No corrosion or damage noted on floor underside.
 - Tank is epoxy coated internally. Coating was found to be in good overall condition.
 - Two small coating failures noted, one on floor longseam and one on manway. No corrosion noted at coating failure locations.
 - All coating failures were patch coat repaired by Streamline Inspection.
 - No evidence of wall thinning of floor or shell CUI corrosion noted during UT scans done from internal surfaces.
 - Tank is in good condition and fit for service.
 New PWA# issued by Streamline Inspection



TANK OVERVIEW



TANK SKIDDED



MANWAY



LADDER AND GAUGE BOARD



LADDER AND GAUGEBOARD



NOZZLES



FLOOR UNDERSIDE



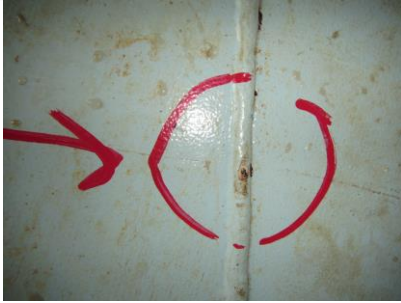
FLOOR OVERVIEW



FLOOR TO SHELL WELD



FLOOR LONGSEAM



FLOOR LONGSEAM COATING FAILURE



MANWAY COATING FAILURES



MANWAY COATING FAILURES



INTERNALS



SHELL OVERVIEW



ROOF



FLOAT



FLOOR LONGSEAM COATING REPAIR



MANWAY COATING REPAIRS

