



# Tank Inspection Report

Location: A4-34-48-27 W3

Tank Type: Heavy oil Storage

Date: Sept 9, 2016

Mfg: Universal

Year blt: 2012

S/N: 024900-4

CAP: 1000 bbl

Floor Thk: 1/4"

Shell Thk:  $\frac{1}{4}"$   $\frac{3}{16}"$

Roof Thk:  $\frac{3}{16}$ "

Requisitioned by: Richard Salzi

Approver: Richard Salzi

Approver Code: 2Z-8000473

WO #: 81123878

PO#: 8401084588

CC:

SAP #: 66175878

**EXTERNAL INSPECTION:**

| ID  | Item                         | Yes | Good | N/A | See Notes |
|-----|------------------------------|-----|------|-----|-----------|
|     | <b>GENERAL</b>               |     |      |     |           |
| T1  | Other (Please Explain)       |     |      |     |           |
| T2  | Corrosion                    |     |      | ✓   |           |
| T3  | Leaks                        |     |      | ✓   |           |
| T4  | Vibration                    |     |      | ✓   |           |
| T5  | Dissimilar Flange Rating     |     |      | ✓   |           |
| T6  | Ladder/Stairway              | ✓   | ✓    |     |           |
| T7  | Platform                     | ✓   | ✓    |     |           |
| T8  | Electrical Ground            | ✓   | ✓    |     |           |
| T9  | Cathodic Protection          |     |      | ✓   |           |
| T10 | Painted Inactive Corrosion   |     |      | ✓   |           |
| T11 | Coating/Painting             |     |      | ✓   |           |
| T12 | Level Gauge                  | ✓   |      |     | 3         |
| T13 | Bottom                       | ✓   | ✓    |     | 1         |
| T14 | Secondary Containment        |     |      | ✓   |           |
| T15 | Shell                        | ✓   | ✓    |     |           |
| T16 | Roof                         | ✓   | ✓    |     |           |
| T17 | Agitator/ Mixer              |     |      | ✓   |           |
|     | <b>SUPPORTS</b>              |     |      |     |           |
| T31 | Other (Please Explain)       |     |      |     |           |
| T32 | Foundation                   |     |      | ✓   |           |
| T33 | Anchor Bolts                 |     |      | ✓   |           |
| T34 | Windgirders                  |     |      | ✓   |           |
|     | <b>CONNECTIONS</b>           |     |      |     |           |
| T41 | Other (Please explain)       |     |      |     |           |
| T42 | Small Branches               |     |      | ✓   |           |
| T43 | Nozzles                      | ✓   | ✓    |     |           |
| T44 | Pipe Manifolds               |     |      | ✓   |           |
| T45 | Swing Lines                  |     |      | ✓   |           |
| T46 | Manways/Hatches              |     |      | ✓   |           |
| T47 | Reinforcing Pads             |     |      | ✓   |           |
| T48 | Inadequate Thread Engagement |     |      | ✓   |           |
| T49 | Bolting                      |     |      | ✓   |           |
| T50 | Flanges                      | ✓   | ✓    |     |           |
| T51 | Leak Clamps                  |     |      | ✓   |           |
|     | <b>INSULATION</b>            |     |      |     |           |
| T61 | Other (Please explain)       |     |      |     |           |
| T62 | Damage                       |     |      | ✓   |           |
| T63 | Penetrations                 | ✓   | ✓    |     |           |
| T64 | Jacket                       |     |      | ✓   |           |
| T65 | Banding                      |     |      | ✓   |           |
| T66 | Seals/Joints                 |     |      | ✓   |           |
|     | <b>RELIEF DEVICE</b>         |     |      |     |           |
| T7t | Other (Please explain)       |     |      |     |           |
| T72 | Corrosion                    |     |      | ✓   |           |
| T73 | Leaks                        |     |      | ✓   |           |
| T74 | Restricted InleUOutlet       |     |      | ✓   |           |
| T75 | Manual Operation Lever       |     |      | ✓   |           |

**INTERNAL INSPECTION:**

| ID  | Item                               | Yes | Good | N/A | See Notes |
|-----|------------------------------------|-----|------|-----|-----------|
|     | GENERAL                            |     |      |     |           |
| T1  | Other (Please Explain)             |     |      |     |           |
| T2  | Corrosion                          |     |      | ✓   |           |
| T3  | Erosion                            |     |      | ✓   |           |
| T4  | Distortion                         |     |      | ✓   |           |
| T5  | Blisters                           |     |      | ✓   |           |
| T6  | Deposits                           | ✓   |      |     | 2         |
| T7  | Welds                              | ✓   | ✓    |     |           |
| T8  | Nozzles                            | ✓   | ✓    |     |           |
| T9  | Shell                              | ✓   | ✓    |     |           |
| T10 | Roof                               | ✓   | ✓    |     |           |
| T11 | Floor                              | ✓   | ✓    |     |           |
|     | GENERAL                            |     |      |     |           |
| T21 | Other - Firetube                   | ✓   | ✓    |     |           |
| T21 | Other - Anodes                     |     |      | ✓   |           |
| T22 | Annular Ring                       |     |      | ✓   |           |
| T23 | Sump                               |     |      | ✓   |           |
| T24 | Roof Supports                      |     |      | ✓   |           |
| T25 | Thermowells                        | ✓   | ✓    |     |           |
| T26 | Metallic Linings                   |     |      | ✓   |           |
| T27 | Non Metallic Linings               |     |      | ✓   |           |
| T28 | Internal Steam Coil / other Piping |     |      | ✓   |           |
| T29 | Level Gauge                        | ✓   | ✓    |     |           |
| T30 | Other Welded Attachements          |     |      | ✓   |           |
|     | Backwelding Req'd                  |     |      | ✓   |           |

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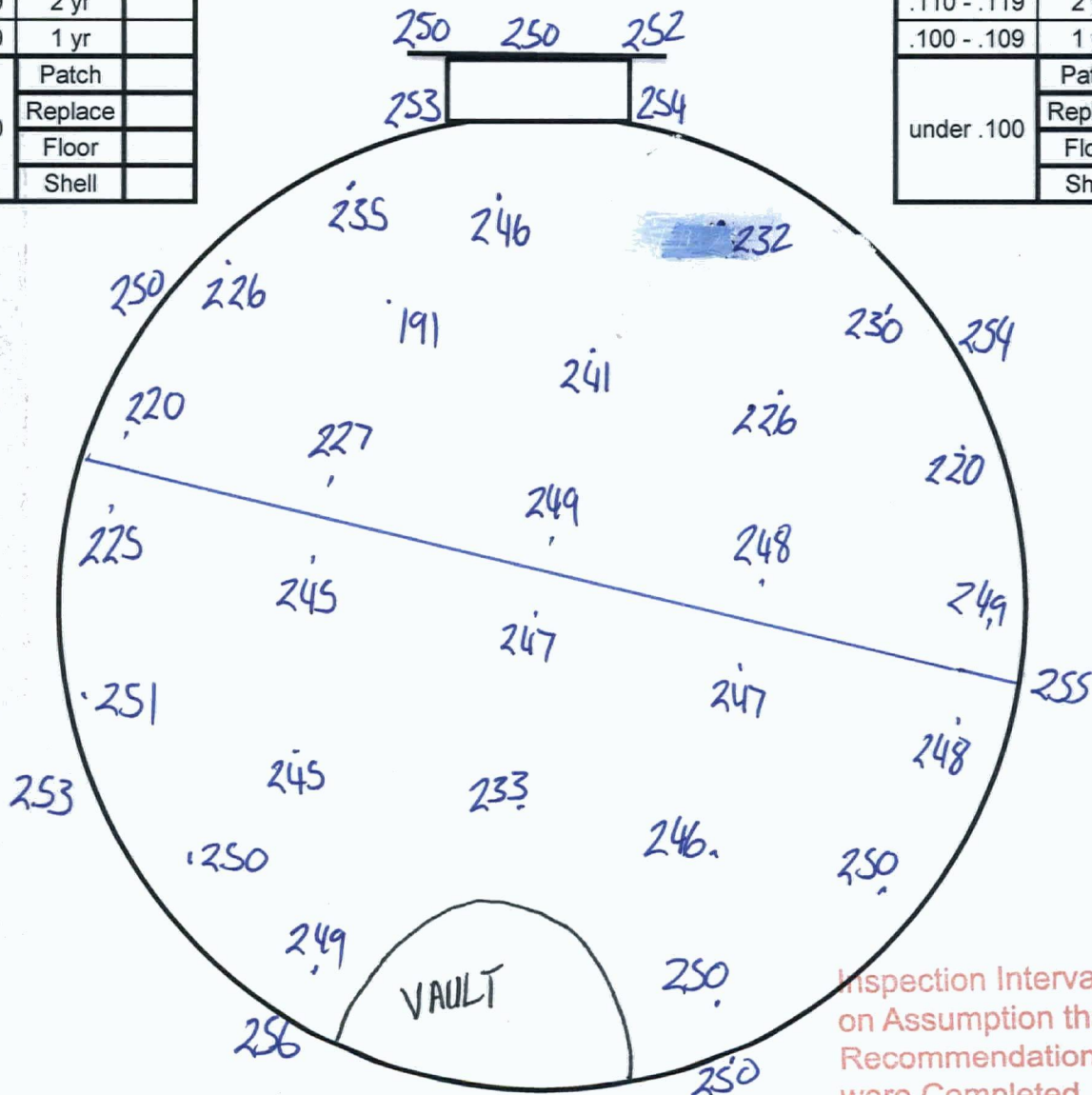


| Without MFE |         |   |
|-------------|---------|---|
| .170 - up   | 5 yr    | ✓ |
| .160 - .169 | 4 yr    |   |
| .150 - .159 | 3 yr    |   |
| .140 - .149 | 2 yr    |   |
| .130 - .139 | 1 yr    |   |
| under .130  | Patch   |   |
|             | Replace |   |
|             | Floor   |   |
|             | Shell   |   |

S/N: 024900 - 4

Location: A4-34-48-27W3

| With MFE    |         |  |
|-------------|---------|--|
| .140 - .150 | 5 yr    |  |
| .130 - .139 | 4 yr    |  |
| .120 - .129 | 3 yr    |  |
| .110 - .119 | 2 yr    |  |
| .100 - .109 | 1 yr    |  |
| under .100  | Patch   |  |
|             | Replace |  |
|             | Floor   |  |
|             | Shell   |  |



Inspection Interval Based on Assumption that Recommendations were Completed

**Comments:**

Some minor under-sine Corrosions on the Floor, Low of 0.191". 5YR Turnaround As Per Husky UT Spec.

Tank In Good Overall Condition For A 5YR Turnaround, NO Required Upgrades.

Some water on Areas of the Floor At the Time of Inspection.

\* Level Gauge Broken, Bottom Section Cracked.

Inspected by: Stephen Bryan

Date: Sept 9, 2016

Husky Inspector: Ale Neist

Date: Sept 16, 2011



