

Tank Visual Inspection Report

Foreman: J. Grocock		Location: 1-21-038-02W5M Plant	
Area: Sylvan		Operations Rep: Dustin Conly	
Inspector: N. Schmidt		Inspect Date: September 19, 2017	
STATIC DATA			
Equipment Inspected: Storage Tank		WO# 66063498	
Process: Refined Used Oil		Volume: 200 BBL - 33.3 m3	
Manufacturer: TankSafe		Mfr. Date: 2006	
Construction Code: API 12F		Roof Girder System: Internal <input type="checkbox"/> External <input type="checkbox"/> N/A <input type="checkbox"/>	
Serial #: 200A06T006		SAP# 66101732	INV. #: 229518
Double Wall: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		Insulated: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Roof Thick: 3/16" - 4.76 mm		Material: A36	
Wall Thick: 3/16" - 4.76 mm		Material: A36	
Floor Thick: 1/4" - 6.35 mm		Material: A36	
Elevated: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		Secondary Containment Type: Double wall	
Internal Coating: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		Type / Brand: Epoxy - Devco Devchem 253	
Height: 9'		Diameter: 13'10"	
OVERALL EQUIPMENT CONDITION SUMMARY			
Inspect Type : Internal Visual <input type="checkbox"/> External Visual <input checked="" type="checkbox"/> UT <input type="checkbox"/> Other <input type="checkbox"/>			
Repair Required: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		Post Repair Inspect Required: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Re-Inspect: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		Recommended Inspect Interval: 5 Yr.	
Suitable For Continued Service: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		In Accordance With Code: PI 650	
Report Is: Partial <input type="checkbox"/>		Preliminary <input type="checkbox"/> Final <input checked="" type="checkbox"/>	
Prepared By: N. Schmidt		Approved By: Dustin Conly	
Review Date: Sep 21, 2017		Next Inspection Date: 2022	
Comments / Recommendations:			
<p>This 200 BBL Storage tank is fit for continued service in it's present application. Based on this condition an inspection interval has been set at 5 years for the next integrity inspection which is consistent with Husky's 2015 Storage System Inspection Interval Standard.</p> <p>Recommendation: Remove & clean interstitial monitoring sight glass.</p> <p style="padding-left: 40px;">Repair/patch voids in roof insulation.</p>			

Norm Schmidt

IPVI #000362 / API #24957

Inspector's Signature

Site Supervisor's Signature

Tank Visual Inspection Report

INTERNAL					
ITEM	SEVERITY				CONDITION / COMMENTS
	NA	1	2	3	
ANODES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BOLTING / PIPING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COATING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DEMISTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DRAINS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FLOOR _	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
GAUGE CABLES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
LADDERS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
LEVEL CONTROLS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MIXERS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOZZLES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ROOF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ROOF SUPPORTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SCALE / DEPOSITS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SIPHONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SKIMMER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SUMP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WALLS / SHELL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WELDMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EXTERNAL					
ANCHOR BOLTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CATHODIC PROTECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COATING / PAINT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Brown - Good condition
DIKES / BERM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dual Wall
FIREPROOFING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FLANGE / GASKET FACES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FOUNDATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Elevated on wood planking
GASKETS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
GRATING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
GROUND CABLE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intact & Secure
HANDRAILS / LADDERS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Secured and stable
INSULATION / CLADDING	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Voids/perforations observed on roof insulation
MANWAYS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24" - 1-piece flanged on roof
NAMEPLATE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intact & Legible
NOZZLES / REPADS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
OVERPRESSURE PROT.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Open vent to Atmosphere
SUPPORTS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WALLS / SHELL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No noticeable distortion or warping

NA: Not Applicable 1: Requires No Attention 2: Requires Monitoring 3: Requires Repair

Consider: Pitting, erosion, corrosion, mechanical damage, distortion, scale, deposits, leaks, blisters, bulges, tight, loose, missing, spalling, plugged, weeping.

Tank Visual Inspection Report

ADDITIONAL INFORMATION:

Vertical 200 BBL tank is double wall, insulated, coated & currently in operation as a Refined Used Oil Storage Tank. Inspection under WO# 60063498

External - Tank is elevated above grade on wood planking on a gravel base. External shell adequately protected with brown paint with no noticeable areas of damage or deterioration. Tank chime area as well as underfloor exposed and dry. Shell consists of 2 courses and all appear in good condition with no significant areas of distortion or deformation. Ladder with safety cage is secure & intact. Underside of floor plate un-insulated & dry and appears in very good condition. Tank is supplied with a catadyne heater within an enclosed insulated compartment, however, the heater is not connected & not in service at time of inspection. Interstitial space monitoring achieved by sight window within same compartment. Sight window appears obscured & requires removal and cleaning for ongoing accurate monitoring. Tank is insulated within double wall as well as spray foam application on roof. Numerous voids observed in roof insulation that would allow rainwater to accumulate & promote tank surface corrosion. These should be repaired to enable continued protection from environmental deterioration. Tank grounding in place and secure.

It must be noted that this is a stand alone tank & is not connected to any production process. It is used for storing used compressor oil only.

There are no indications of leaking product or ground staining that would indicate past or present spill activity.

Tank integrity intact & is in overall very good condition and fit for continued service.



Overview



Nameplate.



External shell supported on planking & grounding in place.



Interstitial space sight glass within heated enclosure. Obscured & requires cleaning.



Insulation damage along roof edge.



Insulation void exposing inner shell to environmental corrosion & deterioration.