



NDT-115 Page 2 of 3
Tank Inspection Report

Location: 103/01-03-49-02 W 4M

Tank Type: Tank 2 Sales

Date: July 6 2018

Mfg: Universal Industries

Year blt: 2012

S/N: 027499-8

CAP: 1000 bbl

Floor Thk: 1/4"

Shell Thk: 1/4" 3/16"

Roof Thk: 3/16"Requisitioned by: Randy Chiurka

Approver: Shane Gustavson

Approver Code: 2Z-02001456

WO #: 81310774

PO#: 8401273576

CC: _____

SAP #: 66232323

EXTERNAL INSPECTION:

ID	Item	Yes	Good	N/A	See Notes
	GENERAL				
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	✓	✓		
T13	Bottom	✓	✓		1
T14	Secondary Containment	✓	✓		
T15	Shell	✓	✓		
T16	Roof	✓	✓		
T17	Agitator/ Mixer			✓	
	SUPPORTS				
T31	Other (Please Explain)				
T32	Foundation	✓	✓		1
T33	Anchor Bolts			✓	
T34	Windgirders			✓	
	CONNECTIONS				
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			✓	
	INSULATION				
T61	Other (Please explain)				
T62	Damage			✓	
T63	Penetrations	✓	✓		
T64	Jacket			✓	
T65	Banding			✓	
T66	Seals/Joints			✓	
	RELIEF DEVICE				
T71	Other (Please explain)				
T72	Corrosion				
T73	Leaks				
T74	Restricted Inlet/Outlet				
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	✓	✓		3
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	✓	✓		4
T30	Other Welded Attachments	✓	✓		
	Backwelding Req'd			✓	

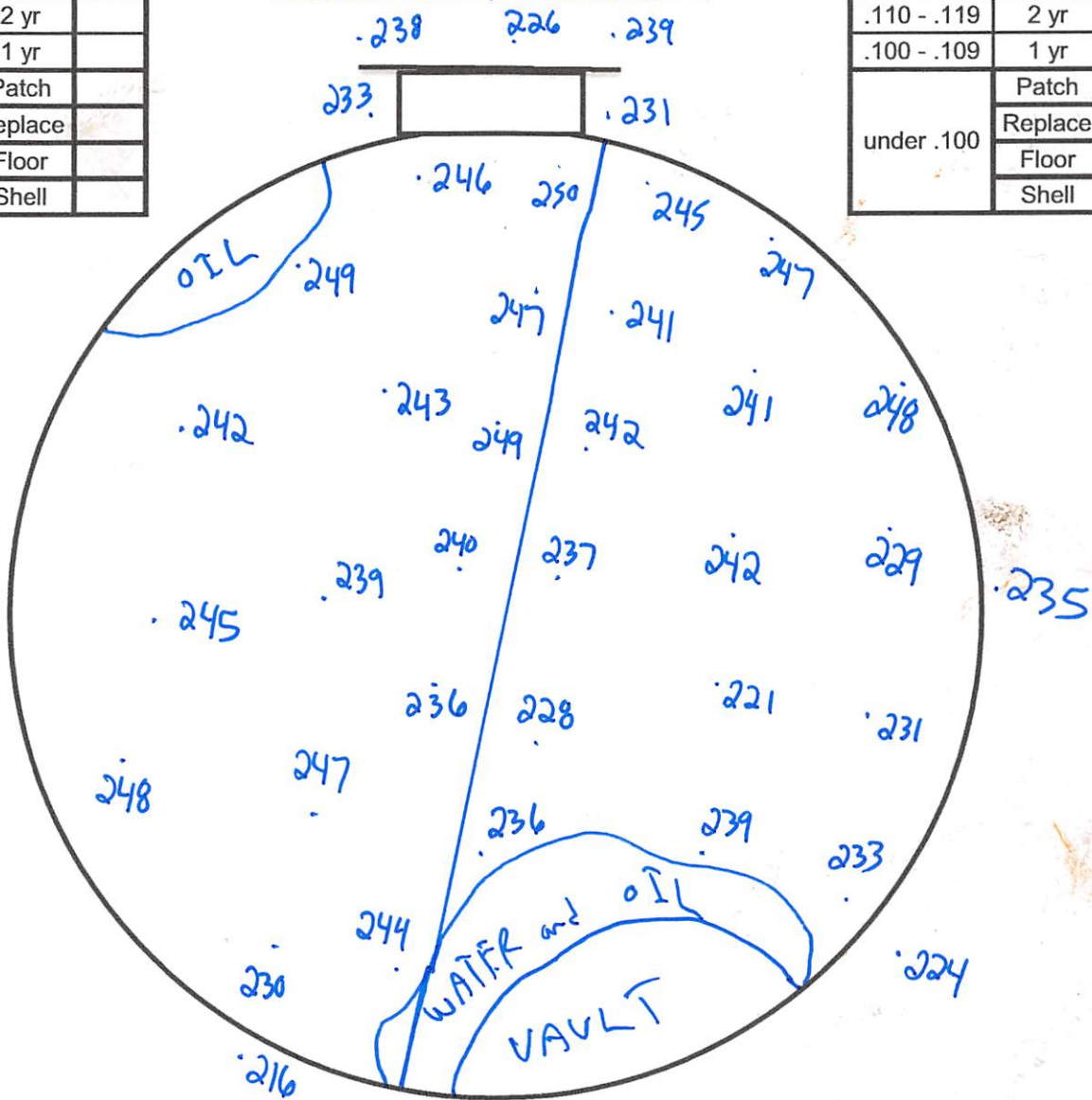
[illegible]

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	

R.L. S/N: 027499-8

Location: 103/01-03-49-0264M

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	



Comments:

Inspected by: Logan Skinner

Date: July 6 2018

Husky Inspector: _____

Date: _____

Type of Inspection: VT/UT/MFE Rev: 3.0
Test Technique: UT thickness
Equipment: DMSGO, FH2E, Flashlight, Grinder
Code / Standard: Client Information

Client: HUSKY OIL OPERATIONS LIMITED
IRISNDT #: LYN1800992
Location: 103/01-03-49-2W4M
Item Inspected: Tank 2 sales SN: 027499-5

Date: 06-Jul-18
WO #: 81310773
PO #: 8401273576

A UT/Vis Inspection was carried out on a 1000BBL Tank @ 103/01-03-49-2W4M

Recommendations / Notes:
-Recommend removing the float guide wires
Tank is suitable for service

MANUFACTURED BY UNIVERSAL INDUSTRIES BONNYVILLE - ALBERTA	
DATE BUILT 2012	DESIGN PRESSURE 2000 OZ
NOMINAL DIAMETER 18-3	DESIGN SPECIFIC GRAVITY 1
NOMINAL HEIGHT 32-0	
NOMINAL CAPACITY 1000 BBL	MAX. OPER. TEMP.
SHELL THK. COURSE 1 1.875	REVISION NUMBER
SHELL THK. COURSE 2 1.875	APPENDIX 10255 0 0 0 0
SHELL THK. COURSE 3 1.875	EDITION
SHELL THK. COURSE 4 1.875	DESIGN LIQUID LEVEL
FLOOR THICKNESS	PARTIAL STRESS RELIEF
ROOF THICKNESS	PURCHASER'S TANK NO.
MANUFACTURER'S SERIAL NUMBER 027499-5	



Note: Spot UT carried as a representation of overall integrity not 100% coverage.

DMSGO # 31139 cal. date due. June 1 2019 Probe: FH2E SN: 01T4WK

Inspection Limitation(s): Only 1st course cleaned for inspection

Unit#: 313 In: _____ Out: _____ Hrs: _____ In: _____ Out: _____ Hrs: _____ Personnel: Logan Skinner Marshall Lundell	Consumables: Min Req: Randy Chiurka Appr: Shane Gustavson 2Z-02001456	Interpretation by: Logan Skinner (Print) <i>[Signature]</i> (Sign) Client Representative: (Print) Karen Hawryluk (Sign) <i>[Signature]</i> I am in full agreement with report contents	SNT-TC-1A: UT-1 C.G.S.B.: 1 (Level) C.G.S.B #: 17159
---	--	---	--

5311 - 86 Street NW, Edmonton, Alberta T6E 5T8 Phone (780) 437-4747 Fax (780) 436-4873
 Calgary (403) 279-6121 Cold Lake (780) 826-6105
 Lloydminster (780) 875-6455 Fort McMurray (780) 743-1536
 Barrhead (780) 674-3018 Red Deer (403) 347-1742
 Nisku (780) 955-7616
 www.irisndt.com

Engineering, Calgary (403) 217-9684
 Engineering, Edmonton (780) 437-2022
 Rope Access Services (780) 437-2022
 Offices also located in USA and UK