

Scorpion R-Scan B-Scan UT Inspection Report



Eddyfi Technologies UK Ltd
 Swansea SA6 8QY, UK
 Clos Llyn Cwm, Bon-y-maen
 Swansea Enterprise Park

REPORT NUMBER		111.222.333	ORDER NUMBER		120.130.140
Customer :	<i>TANK OWNER</i>		Test location :	<i>HARBOUR 001</i>	
Project :	<i>INSPECTION SCANLINE 1</i>		Tank number :	<i>T1024</i>	
Order nr :	<i>000,000.000</i>		Tank Type :	<i>EFRT</i>	Class : <i>K1</i>
Insp. Date:	<i>13-11-2019</i>		Build year :	<i>1972</i>	Code: <i>BS2654</i>

Procedure :	<i>EEMUA 159</i>		Equipment	<input checked="" type="checkbox"/> Scorpion 2	ID no: <i>12345</i>
Calibration block :	<i>Step wedge 5-20</i>	<i>mm</i>		<input type="checkbox"/> R-Scan	ID no: <i>12345</i>
Couplant :	<i>Oil</i>		Data logger :	<i>SWIFT-UT</i>	ID no: <i>12345</i>
Surface condition :	<i>Painted</i>		Sweep length	<i>50,0</i>	mm
Inspector :	<i>Name</i>		Sensitivity :	<i>60,0</i>	dB
Qualification :	<i>EN12345</i>		Probe Type :	<i>Wheel probe</i>	
Gate 1 setup	<i>Floating</i>		Probe setup :	<i>Twin Cristal</i>	
Gate 2 setup	<i>Floating and tracking</i>		Frequency :	<i>5Mhz</i>	

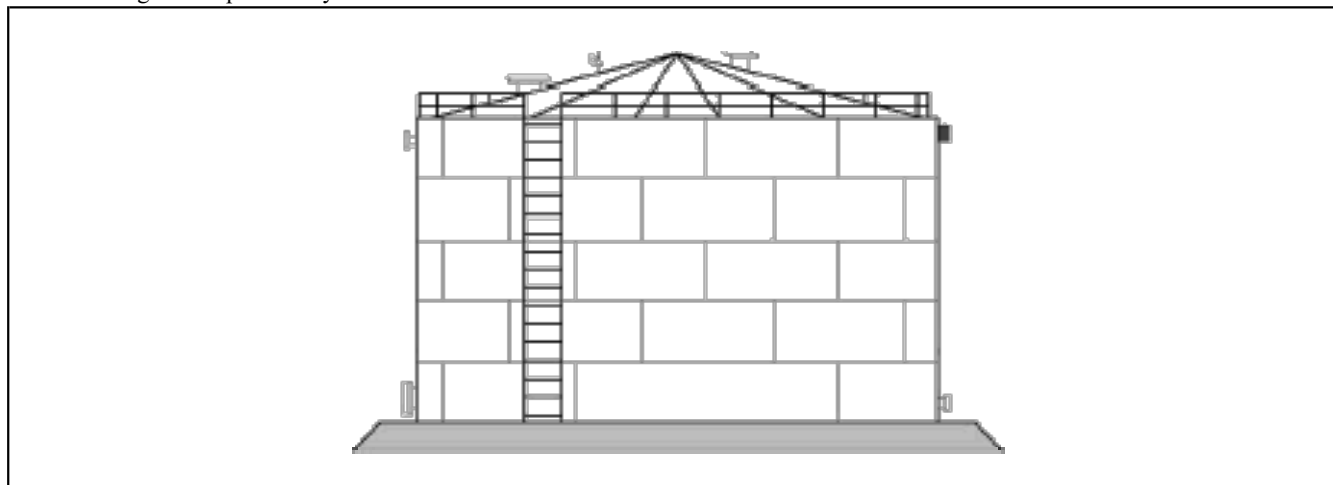
Inspection Details:

Tank height :	<i>22 m</i>	Inspected :	<input checked="" type="checkbox"/> Tank Shell	<input type="checkbox"/> Tank Roof	<input checked="" type="checkbox"/> Nozzles
Tank diameter :	<i>72 m</i>	Total scan lines :	<i>5,0</i>		
Number of Courses :	<i>5</i>	Scan length :	<i>14356,0 mm</i>		
Wind girders :	<i>1</i>				

Inspection conditions :

<input checked="" type="checkbox"/> <i>Measurements include coating thickness</i>	<input type="checkbox"/> <i>Poor weather conditions</i>
<input checked="" type="checkbox"/> <i>Tank surface was uncleaned</i>	<input checked="" type="checkbox"/> <i>Thick paint conditions</i>
<input checked="" type="checkbox"/> <i>Ambient temp</i>	<input type="checkbox"/> <i>Algea detected on tank surface</i>
<input type="checkbox"/> <i>Heated product</i>	<input type="checkbox"/> <i>Other.....</i>

Tank drawing and inspection layout:



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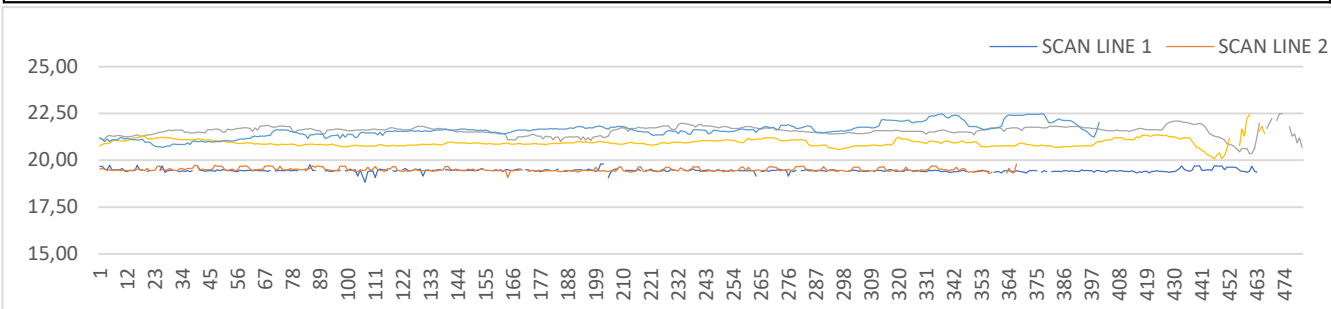
MEASUREMENT RESULTS SUMMERY				SCAN LINE : 1 through 5		COURSE NUMBER: 1					
Report number :		111.222.333		Order Number :		120.130.140					
Tank number :		T1024		Inspection date :		13-11-2019					
Measured wall thicknesses - GATE 2 - without coating											
SCAN LINE	Area length	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10
1	249	18,82	19,15								
2	249	19,09	19,29								
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											

Measurement results

Largest WT	19,29	Smallest WT	18,82	Average WT	19,09	Filter HF	22,50
Loss measured	0,21		0,68	Average Coating	2,28	Filter LF	18,50

Comments

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MEASUREMENT RESULTS SUMMERY		SCAN LINE : 1 through 5						COURSE NUMBER: 2					
Report number :		111.222.333						Order Number :		120.130.140			
Tank number :		T1024						Inspection date :		13-11-2019			
Measured wall thicknesses - GATE 2 - without coating													
SCAN LINE	Area length	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10		
1	249	18,61	19,09	19,09	19,15	19,12	18,91	19,12	19,06	19,00	18,55		
2	224	14,18	14,15	14,12	14,51	14,51	14,48	14,98	14,57	14,86	14,00		
3		15,10	15,22	15,25	15,37	15,34	15,34	15,34	15,31	15,28	15,16		
4		15,04	15,19	15,22	15,25	14,98	15,22	14,51	15,22	15,04	14,39		
5		14,03	15,55	15,58	15,64	15,07	15,64	15,61	15,55	15,55	15,55		
6													
7													
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14													
15													
16													

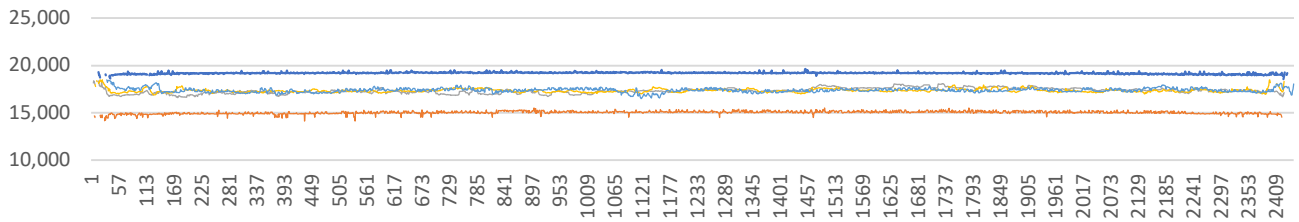
Measurement summary

Largest WT	19,15	Smallest WT	14,00	Average WT	15,81	Filter HF	22,50
Loss measured	-0,24		4,91	Average Coating	15,91	Filter LF	18,50

Comments

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Full wall thickness profile



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MEASUREMENT RESULTS SUMMERY		SCAN LINE : 1		COURSE NUMBER: 4							
Report number :	111.222.333	Order Number :	120.130.140								
Tank number :	T1024	Inspection date :	13-11-2019								
Measured wall thicknesses											
SCAN LINE	Area length	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10
1	249	9,54	9,96	9,57	9,63	9,60	9,60	9,60	9,57		
2	249	9,84	9,93	10,14	10,26	10,08	10,14	10,05			
3	249	9,51	9,90	9,99	9,87	9,63	9,81	9,72			
4	249	9,57	10,20	10,17	10,23	9,99	9,96				
5	249	9,51	9,60	10,17	10,26	10,08	9,57				
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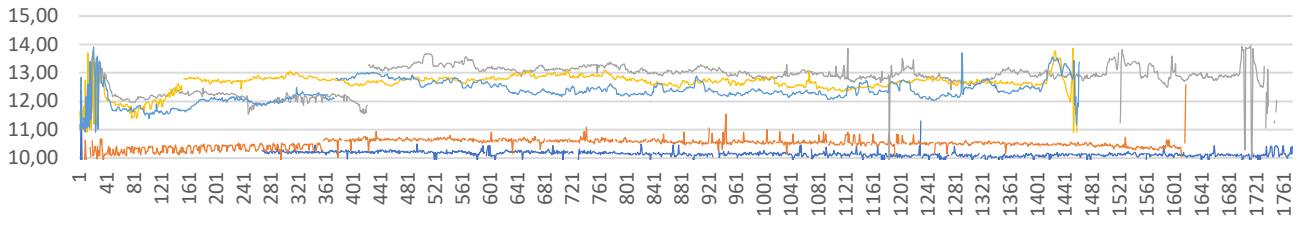
Measurement summary

Largest WT	10,26	Smallest WT	9,51	Average WT	9,86	Filter HF	13,50
Loss measured				Average Coating	9,79	Filter LF	9,50

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MEASUREMENT RESULTS SUMMERY		SCAN LINE : 1		COURSE NUMBER: 5							
Report number :	111.222.333	Order Number :	120.130.140								
Tank number :	T1024	Inspection date :	13-11-2019								
Measured wall thicknesses											
SCAN LINE	Area length	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10
1	249	9,51	9,60	9,54	9,60	9,66					
2	249	9,04	9,39	9,31	9,57	9,72					
3	249	9,31	9,19	9,19	9,39	9,63					
4	249	9,04	9,81	9,36	9,87	9,72					
5	249	9,07	9,28	9,48	9,42						
6	249										
7	249										
8	38										
9											
10											
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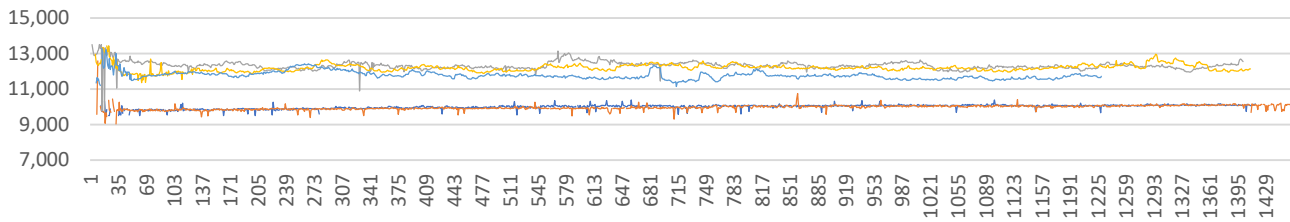
Measurement summary

Largest WT	9,87	Smallest WT	9,04	Average WT	9,45	Filter HF	13,50
Loss measured				Average Coating	2,57	Filter LF	9,50

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