

FIRE WATER TANK 851 B ANGLE CONTACT IN PIPE



Vedanta Cairn oil & Gas division			
Project Name	FIRE WATER TANK 851 B ANGLE CONTACT IN PIPE	Report number	VOLAT-T-851-B-ANGLED
Location	Raageshwari Gas terminal, Barmer	Client representative	Simon Doss

Asset Information			
Asset	FIRE WATER TANK	Inspection date	2024-05-16
Asset type	CARBONSTEEL	Report date	2024-05-17
Asset number	851 B		

Inspection Service Provider			
Name	VOLAR ALTA PVT LTD	NDT technician	KRISHNAN M Lv 2 NDT
Drone pilot 1	RIYAZ R	Drone pilot 2	SUDHAKAR RAJ MM

Acceptance Criteria	
Inspection procedure	ASTM E797M-10
Acceptance criteria	COMPARE WITH MANUEL UT WITH 0.2 mm

Operator		Reviewer		Client Acceptance	
Name		Name		Name	
Date		Date		Date	
Signature		Signature		Signature	

Inspection Equipment - Drone			
Name	VOLIRO T	Serial number	2339
Operating mode	Untethered		

Inspection Equipment - NDT			
Device Type	EMAT Ultrasonic Sensor	Manufacturer	Voliro AG
Serial number	000164-0024	Probe frequency	3.5-4 MHz
Calibration	10 mm	Calibration temperature	AMBIENT
Factory Calibration Date	2024-04-01	Couplant	NA
Scan type	A	Step size	10 mm

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1 Summary

Critical Reduction Detected

1.1 Main Findings

Reduction above Acceptance value

1.2 Main Recommendations

2 Asset

2.1 Inspection Location : Vedanta fire water tank D 851 B angle

2.1.1 Inspection Location

2.1.2 Results

Table 2: Location Major Findings

Point	Timestamp [s]	Measured [mm]	Reference [mm]	Comment
1	16 May 2024, 11:20:00	9.630	-	-
2	16 May 2024, 11:20:31	10.030	-	-
3	16 May 2024, 11:21:09	10.320	-	-
4	16 May 2024, 11:22:07	10.560	-	-
5	16 May 2024, 11:22:30	9.670	-	-
6	16 May 2024, 11:23:22	5.640	-	-

Point 1

GPS position (latitude, longitude): 25.29970723, 71.75177293

Table 3: Details results for Point 1 on Location

Thickness [mm]	9.630	XYZ Coordinates [m]	8.52	4.68	10.41
Rotation	Pitch: -16.2°	Timestamp [s]	16 May 2024, 11:20:00		



Figure 1: Location - Point 1



Figure 2: Location - Point 1

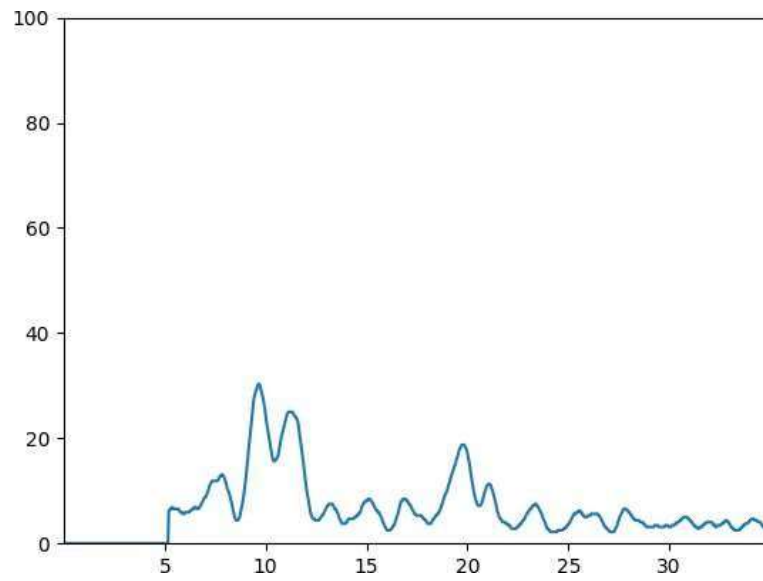


Figure 3: Location - Point 1

Point 2

GPS position (latitude, longitude): 25.29971276, 71.75177398

Table 4: Details results for Point 2 on Location

Thickness [mm]	10.030	XYZ Coordinates [m]	9.13	4.79	11.30
Rotation	Pitch: -36.7°	Timestamp [s]	16 May 2024, 11:20:31		



Figure 4: Location - Point 2



Figure 5: Location - Point 2

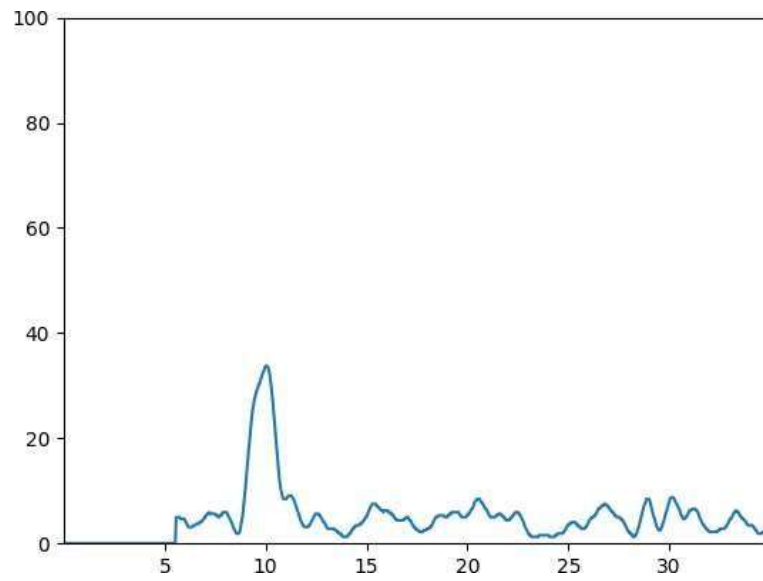


Figure 6: Location - Point 2

Point 3

GPS position (latitude, longitude): 25.29970556, 71.75176848

Table 5: Details results for Point 3 on Location

Thickness [mm]	10.320	XYZ Coordinates [m]	8.33	4.23	12.16
Rotation	Pitch: -36.4°	Timestamp [s]	16 May 2024, 11:21:09		



Figure 7: Location - Point 3



Figure 8: Location - Point 3

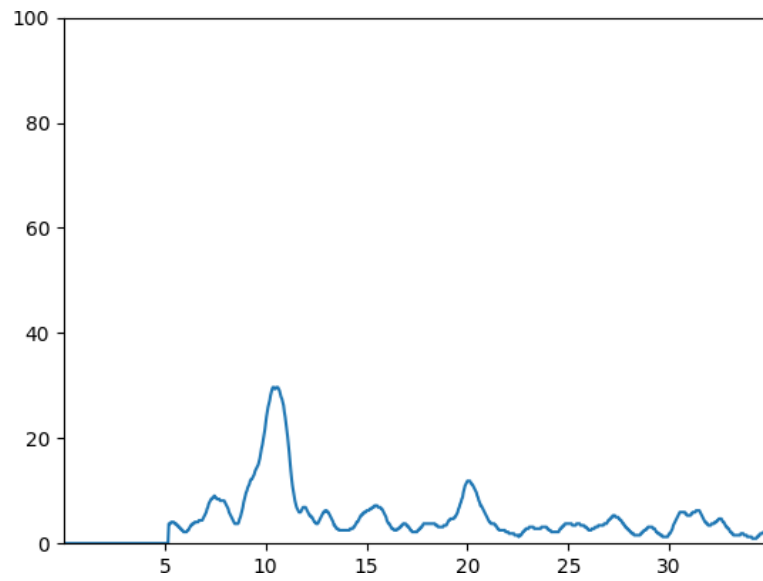


Figure 9: Location - Point 3

Point 4

GPS position (latitude, longitude): 25.29970854, 71.75177431

Table 6: Details results for Point 4 on Location

Thickness [mm]	10.560	XYZ Coordinates [m]	8.66	4.82	14.36
Rotation	Pitch: 28.0°	Timestamp [s]	16 May 2024, 11:22:07		



Figure 10: Location - Point 4



Figure 11: Location - Point 4

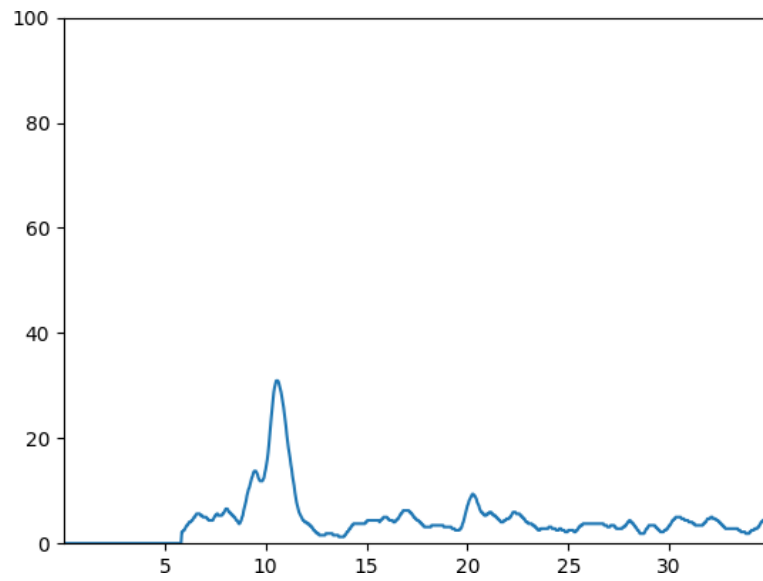


Figure 12: Location - Point 4

Point 5

GPS position (latitude, longitude): 25.29971332, 71.75177572

Table 7: Details results for Point 5 on Location

Thickness [mm]	9.670	XYZ Coordinates [m]	9.19	4.96	15.05
Rotation	Pitch: 28.4°	Timestamp [s]	16 May 2024, 11:22:30		



Figure 13: Location - Point 5



Figure 14: Location - Point 5

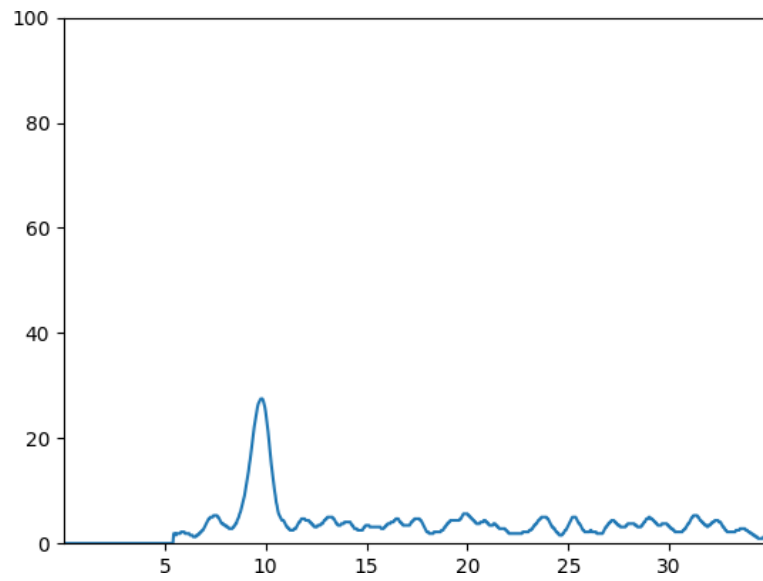


Figure 15: Location - Point 5

Point 6

GPS position (latitude, longitude): 25.29970383, 71.75176376

Table 8: Details results for Point 6 on Location

Thickness [mm]	5.640	XYZ Coordinates [m]	8.14	3.76	16.65
Rotation	Pitch: 28.3°	Timestamp [s]	16 May 2024, 11:23:22		



Figure 16: Location - Point 6



Figure 17: Location - Point 6

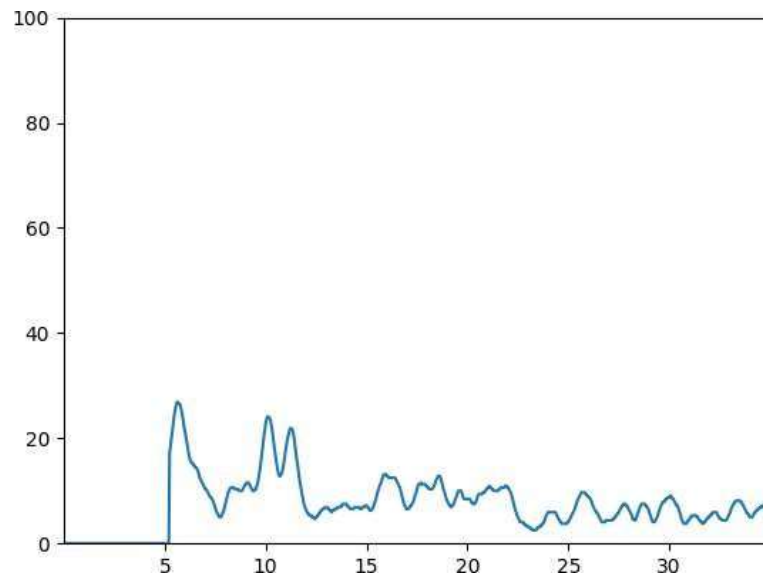


Figure 18: Location - Point 6