



Inspection Service

This Service Presented To

HILONG

Inspection Service:

UT Wall Thickness Measurements (UTM)

Customer:

Hilong Oil Services & Engineering, Co. Ltd. Iraq Branch

Work Location:

HL – 22 / ZB-622

Inspection Date:

04 – December – 2024

Next Inspection Date:

03 – December – 2025

Inspector Name:

Tayyab Abbasi





Inspection Summary Report

Report No:	ATS-12-24-4628-UTM-001	Job No:	ATS-12-24-4628
Customer:	Hilong Oil Services & Engineering	Examination date:	04-December-2024
Location:	HL-22 / ZB-622	Next Due date:	03-December-2025



Equipment Details:

Name of the Examined Equipment:	Chiksan Swivel:
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Summary of Procedures:

Description of Step	Status	Remark
Visually Check For Any Damage Wear Distortionetc.	✓	Pass
Check Markings & Serial Number:	✓	Pass
Check The Ultrasonic Thickness Measuring Equipment before work:	✓	Pass
The Device Was Tested by The Test Block:	✓	Pass
Comparison Of Actual Reading with Minimum Thickness:	✓	Pass
UTM Interpretation against ASTM E797 Acceptance Criteria:	✓	Pass

ASNT Level II Inspector Name:	Signature & Stamp
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Tayyab Abbasi





ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE



Client: Hilong Oil Services & Engineering	Location: HL-22 / ZB-622	Inspection Date: 04-Dec-2024
Certificate No: ATS-12-24-4628-UTM-001-1	Work order & Job No#: ATS-12-24-4628	Inspection Due Date: 03-Dec-2025
Item Description: Poorboy Degasser		
Serial No#: 15-1-09		
Relative Standards/Specifications: ASTM E 797 & Client Specifications		Material: Carbon Steel
Surface Condition: Brushed and Cleaned		Surface Temperature: 22 C°
Measuring Equipment		
UTM Instrument - Maker: Sona Test	Model: Sonagage IV	S. No.: 05058473
		Calibration Date: 28-June-2024
		Calibration Due Date: 27-Dec-2024
Pit Depth Gauge - Maker: New Tech	Model: NAA-4-M11118	S. No.: 97594
		Calibration Date: 28-June-2024
		Calibration Due Date: 27-Dec-2024

Sketch or picture (direct on this page or attached)

(a) Normal condition: Large reflection echo, Area of diffused echo, Detector, Surface, Target.

(b) Corroded condition: Small reflection echo, Area of diffused echo, Detector, Corroded condition, Target.

Reflection echo become wide small by diffused reflection caused by corroded scabrous surface.

UTM Gauging Positions

1: 12 O'clock position
2: 3 O'clock position
3: 6 O'clock position
4: 9 O'clock position

UTM Results

Position	Nominal Wall Thickness	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	Nil	Need to be Provided from OEM by the client	8.51	8.97	9.68	8.64	Need Review
A2		Need to be Provided from OEM by the client	8.56	8.92	8.53	8.44	Need Review
A3		Need to be Provided from OEM by the client	8.48	8.76	8.58	8.66	Need Review
A4		Need to be Provided from OEM by the client	8.67	8.44	8.88	9.08	Need Review
A5		Need to be Provided from OEM by the client	10.12	8.06	10.09	9.22	Need Review
A6		Need to be Provided from OEM by the client	9.53	8.96	10.02	9.55	Need Review
A7		Need to be Provided from OEM by the client	9.56	9.45	10.02	8.54	Need Review
A8		Need to be Provided from OEM by the client	8.65	9.66	9.18	10.10	Need Review

Result:

1- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND ALL ACTUAL WALL THICKNESS READINGS **SHOULD BE REVIEWED AGAINST THE OEM DOCUMENTS WHICH SHALL BE PROVIDED FROM THE OEM BY THE CLIENT**

Inspector Name:	Tayyab Abbasi	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	05-Dec-2024	
Signature:		Signature:		

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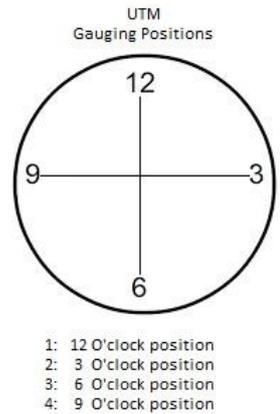
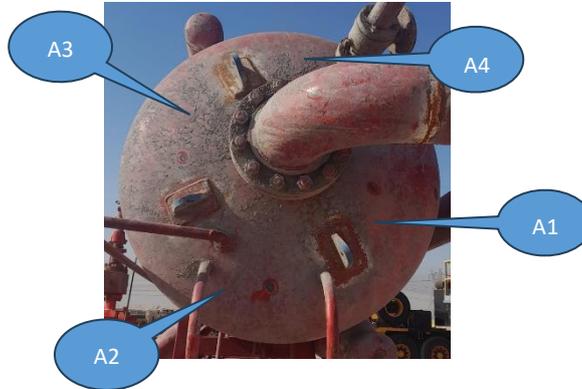
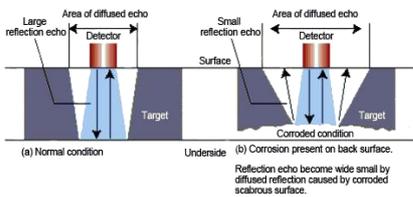
ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE



Client: Hilong Oil Services & Engineering	Location: Hilong - 22 / ZB-622	Inspection Date: 04-Dec-2024
Certificate No: ATS-12-24-4628-UTM-001-2	Work order & Job No#: ATS-12-24-4628	Inspection Due Date: 03-Dec-2025
Item Description: Poorboy Degasser		
Serial No#: 15-1-09		
Relative Standards/Specifications: ASTM E 797 & Client Specifications		Material: Carbon Steel
Surface Condition: Brushed and Cleaned		Surface Temperature: 22 C°
Measuring Equipment		
UTM Instrument - Maker: Sona Test	Model: Sonagage IV	S. No.: 05058473
		Calibration Date: 28-June-2024
		Calibration Due Date: 27-Dec-2024
Pit Depth Gauge - Maker: New Tech	Model: NAA-4-M11118	S. No.: 97594
		Calibration Date: 28-June-2024
		Calibration Due Date: 27-Dec-2024

Sketch or picture (direct on this page or attached)



UTM Results

Position	Nominal Wall Thickness	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	Nil	Need to be Provided from OEM by the client	8.54	8.36	8.44	8.44	Need Review
A2		Need to be Provided from OEM by the client	8.39	8.32	8.35	8.42	Need Review
A3		Need to be Provided from OEM by the client	8.28	8.33	8.45	8.38	Need Review
A4		Need to be Provided from OEM by the client	8.52	8.39	8.28	8.41	Need Review

Result:

1- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND ALL ACTUAL WALL THICKNESS READINGS **SHOULD BE REVIEWED AGAINST THE OEM DOCUMENTS WHICH SHALL BE PROVIDED FROM THE OEM BY THE CLIENT**

Inspector Name:	Tayyab Abbasi	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	05-Dec-2024	
Signature:		Signature:		



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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE



Client: Hilong Oil Services & Engineering	Location: Hilong - 22 / ZB-622	Inspection Date: 04-Dec-2024
Certificate No: ATS-12-24-4628-UTM-001-3	Work order & Job No#: ATS-12-24-4628	Inspection Due Date: 03-Dec-2025

Item Description:	Poorboy Degasser
	Serial No#: 15-1-09

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: Carbon Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 22 C°

Measuring Equipment				
UTM Instrument - Maker: Sona Test	Model: Sonage IV	S. No.: 05058473	Calibration Date: 28-June-2024	Calibration Due Date: 27-Dec-2024
Pit Depth Gauge - Maker: New Tech	Model: NAA-4-M11118	S. No.: 97594	Calibration Date: 28-June-2024	Calibration Due Date: 27-Dec-2024

Sketch or picture (direct on this page or attached)

(a) Normal condition

(b) Corrosion present on back surface. Reflection echo become wide small by diffused reflection caused by corroded scabrous surface.

UTM Gauging Positions

1: 12 O'clock position
2: 3 O'clock position
3: 6 O'clock position
4: 9 O'clock position

UTM Results							
Position	Nominal Wall Thickness	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	Nil	Need to be Provided from OEM by the client	8.57	8.60	9.43	8.58	Need Review
A2		Need to be Provided from OEM by the client	8.65	9.06	8.66	8.48	Need Review
A3		Need to be Provided from OEM by the client	8.66	8.54	8.42	8.72	Need Review
A4		Need to be Provided from OEM by the client	9.32	8.63	9.12	8.49	Need Review
A5		Need to be Provided from OEM by the client	9.85	8.54	9.32	9.22	Need Review
A6		Need to be Provided from OEM by the client	9.64	8.53	10.12	9.39	Need Review
A7		Need to be Provided from OEM by the client	9.17	9.28	8.76	9.32	Need Review
A8		Need to be Provided from OEM by the client	10.05	9.76	8.88	9.44	Need Review

Result:
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Inspector Name:	Tayyab Abbasi	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	05-Dec-2024	
Signature:		Signature:		



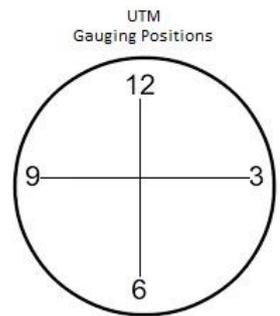
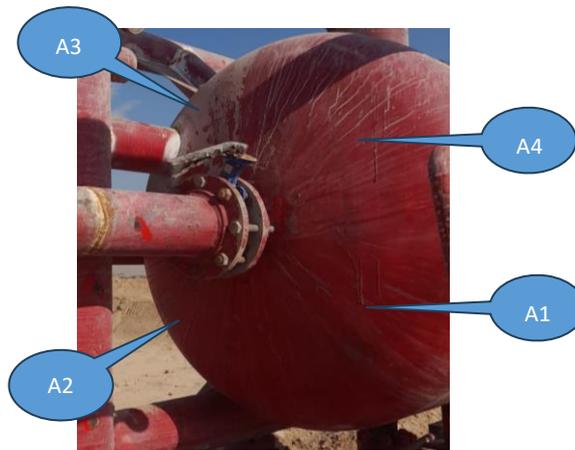
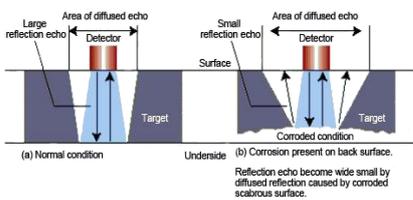
ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE



Client: Hilong Oil Services & Engineering		Location: Hilong - 22 / ZB-622		Inspection Date: 04-Dec-2024	
Certificate No: ATS-12-24-4628-UTM-001-4		Work order & Job No#: ATS-12-24-4628		Inspection Due Date: 03-Dec-2025	
Item Description:			Poorboy Degasser		
			Serial No#: 15-1-09		
Relative Standards/Specifications: ASTME 797 & Client Specifications			Material: Carbon Steel		
Surface Condition: Brushed and Cleaned			Surface Temperature: 22 C°		
Measuring Equipment					
UTM Instrument - Maker: Sona Test		Model: Sonagage IV	S. No.: 05058473	Calibration Date: 28-June-2024	Calibration Due Date: 27-Dec-2024
Pit Depth Gauge - Maker: New Tech		Model: NAA-4-M11118	S. No.: 97594	Calibration Date: 28-June-2024	Calibration Due Date: 27-Dec-2024

Sketch or picture (direct on this page or attached)



- 1: 12 O'clock position
- 2: 3 O'clock position
- 3: 6 O'clock position
- 4: 9 O'clock position

UTM Results

Position	Nominal Wall Thickness	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	Nil	Need to be Provided from OEM by the client	8.43	8.41	8.32	8.36	Need Review
A2		Need to be Provided from OEM by the client	8.36	8.38	8.49	8.40	Need Review
A3		Need to be Provided from OEM by the client	8.42	8.34	8.36	8.39	Need Review
A4		Need to be Provided from OEM by the client	8.46	8.35	8.41	8.44	Need Review

Result:
 1- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND ALL ACTUAL WALL THICKNESS READINGS **SHOULD BE REVIEWED AGAINST THE OEM DOCUMENTS WHICH SHALL BE PROVIDED FROM THE OEM BY THE CLIENT**

Inspector Name:	Tayyab Abbasi	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	05-Dec-2024	
Signature:		Signature:		





ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE



Client: Hilong Oil Services & Engineering	Location: Hilong - 22 / ZB-622	Inspection Date: 04-Dec-2024
Certificate No: ATS-12-24-4628-UTM-001-5	Work order & Job No#: ATS-12-24-4628	Inspection Due Date: 03-Dec-2025

Item Description: Poorboy Degasser (Exhaust Pipe)	
Serial No#: 15-1-09	
Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: Carbon Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 22 C°

Measuring Equipment				
UTM Instrument - Maker: Sona Test	Model: Sonagage IV	S. No.: 05058473	Calibration Date: 28-June-2024	Calibration Due Date: 27-Dec-2024
Pit Depth Gauge - Maker: New Tech	Model: NAA-4-M11118	S. No.: 97594	Calibration Date: 28-June-2024	Calibration Due Date: 27-Dec-2024

Sketch or picture (direct on this page or attached)

(a) Normal condition
Underside
(b) Corrosion present on back surface.
Reflection echo become wide small by diffused reflection caused by corroded scabrous surface.

UTM Gauging Positions

1: 12 O'clock position
2: 3 O'clock position
3: 6 O'clock position
4: 9 O'clock position

UTM Results							
Position	Nominal Wall Thickness	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	Nil	Need to be Provided from OEM by the client	5.24	5.54	6.49	5.85	Need Review
A2		Need to be Provided from OEM by the client	5.56	6.10	6.49	5.65	Need Review
A3		Need to be Provided from OEM by the client	6.66	5.88	5.37	5.31	Need Review
A4		Need to be Provided from OEM by the client	4.46	6.35	6.41	5.44	Need Review
A5		Need to be Provided from OEM by the client	7.73	6.96	7.14	7.14	Need Review
A6		Need to be Provided from OEM by the client	5.65	6.10	5.88	5.25	Need Review

Result:
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Signature:		Signature:		



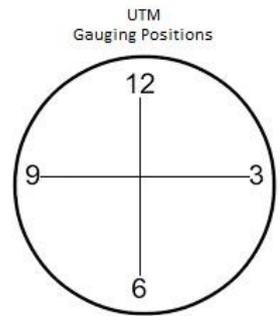
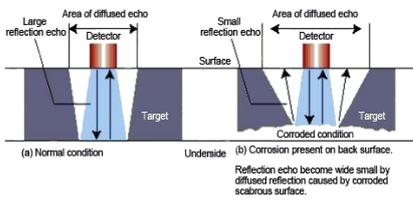
ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE



Client: Hilong Oil Services & Engineering		Location: Hilong - 22 / ZB-622		Inspection Date: 04-Dec-2024	
Certificate No: ATS-12-24-4628-UTM-001-6		Work order & Job No#: ATS-12-24-4628		Inspection Due Date: 03-Dec-2025	
Item Description: Poorboy Degasser(Exhaust Line)					
Serial No#: 15-1-09					
Relative Standards/Specifications: ASTME 797 & Client Specifications			Material: Carbon Steel		
Surface Condition: Brushed and Cleaned			Surface Temperature: 22 C°		
Measuring Equipment					
UTM Instrument - Maker: Sona Test		Model: Sonagage IV	S. No.: 05058473	Calibration Date: 28-June-2024	Calibration Due Date: 27-Dec-2024
Pit Depth Gauge - Maker: New Tech		Model: NAA-4-M11118	S. No.: 97594	Calibration Date: 28-June-2024	Calibration Due Date: 27-Dec-2024

Sketch or picture (direct on this page or attached)



- 1: 12 O'clock position
- 2: 3 O'clock position
- 3: 6 O'clock position
- 4: 9 O'clock position

UTM Results

Position	Nominal Wall Thickness	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	Nil	Need to be Provided from OEM by the client	7.13	7.35	7.22	6.88	Need Review
A2		Need to be Provided from OEM by the client	7.16	6.98	6.89	7.40	Need Review
A3		Need to be Provided from OEM by the client	5.42	5.32	5.64	5.59	Need Review
A4		Need to be Provided from OEM by the client	6.93	6.76	7.31	7.12	Need Review

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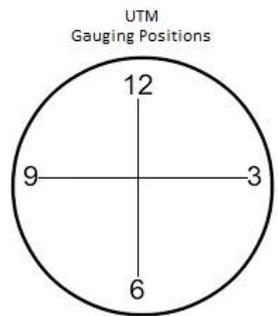
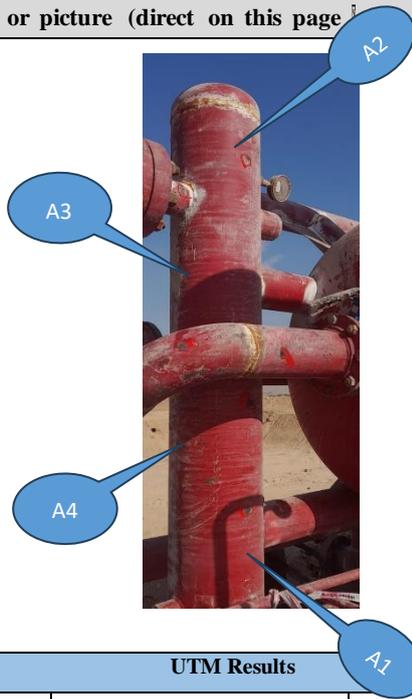
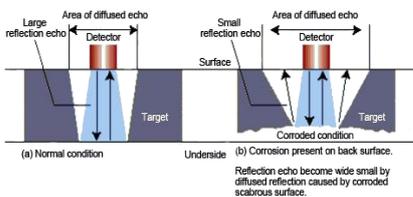
ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE



Client: Hilong Oil Services & Engineering	Location: Hilong - 22 / ZB-622	Inspection Date: 04-Dec-2024
Certificate No: ATS-12-24-4628-UTM-001-7	Work order & Job No#: ATS-12-24-4628	Inspection Due Date: 03-Dec-2025
Item Description: Poorboy Degasser (Pressure Manifold)		
Serial No#: 15-1-09		
Relative Standards/Specifications: ASTM E 797 & Client Specifications		Material: Carbon Steel
Surface Condition: Brushed and Cleaned		Surface Temperature: 22 C°
Measuring Equipment		
UTM Instrument - Maker: Sona Test	Model: Sonagage IV	S. No.: 05058473
		Calibration Date: 28-June-2024
		Calibration Due Date: 27-Dec-2024
Pit Depth Gauge - Maker: New Tech	Model: NAA-4-M11118	S. No.: 97594
		Calibration Date: 28-June-2024
		Calibration Due Date: 27-Dec-2024

Sketch or picture (direct on this page attached)



- 1: 12 O'clock position
- 2: 3 O'clock position
- 3: 6 O'clock position
- 4: 9 O'clock position

UTM Results

Position	Nominal Wall Thickness	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	Nil	Need to be Provided from OEM by the client	8.43	8.45	8.55	8.34	Need Review
A2		Need to be Provided from OEM by the client	8.36	8.60	8.36	8.45	Need Review
A3		Need to be Provided from OEM by the client	8.33	8.54	8.70	8.62	Need Review
A4		Need to be Provided from OEM by the client	8.53	8.60	8.39	8.55	Need Review

Result:
 CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND ALL ACTUAL WALL THICKNESS READINGS **SHOULD BE REVIEWED AGAINST THE OEM DOCUMENTS WHICH PROVIDED FROM THE OEM BY THE CLIENT**

Inspector Name:	Tayyab Abbasi	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	05-Dec-2024	
Signature:		Signature:		



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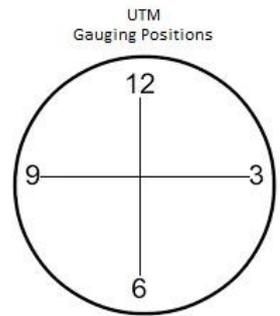
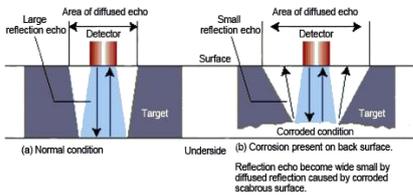
ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE



Client: Hilong Oil Services & Engineering		Location: Hilong - 22 / ZB-622		Inspection Date: 04-Dec-2024	
Certificate No: ATS-12-24-4628-UTM-001-8		Work order & Job No#: ATS-12-24-4628		Inspection Due Date: 03-Dec-2025	
Item Description: Poorboy Degasser(Outlet Line)					
Serial No#: 15-1-09					
Relative Standards/Specifications: ASTME 797 & Client Specifications			Material: Carbon Steel		
Surface Condition: Brushed and Cleaned			Surface Temperature: 22 C°		
Measuring Equipment					
UTM Instrument - Maker: Sona Test		Model: Sonagage IV	S. No.: 05058473	Calibration Date: 28-June-2024	Calibration Due Date: 27-Dec-2024
Pit Depth Gauge - Maker: New Tech		Model: NAA-4-M11118	S. No.: 97594	Calibration Date: 28-June-2024	Calibration Due Date: 27-Dec-2024

Sketch or picture (direct on this page or attached ☐)



- 1: 12 O'clock position
- 2: 3 O'clock position
- 3: 6 O'clock position
- 4: 9 O'clock position

UTM Results

Position	Nominal Wall Thickness	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	Nil	Need to be Provided from OEM by the client	3.62	3.70	3.68	3.72	Need Review
A2		Need to be Provided from OEM by the client	3.66	3.68	3.75	3.78	Need Review
A3		Need to be Provided from OEM by the client	5.10	5.18	5.14	5.38	Need Review
A4		Need to be Provided from OEM by the client	3.78	3.62	3.55	3.78	Need Review

Result:
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Inspector Name:	Tayyab Abbasi	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	05-Dec-2024	
Signature:		Signature:		



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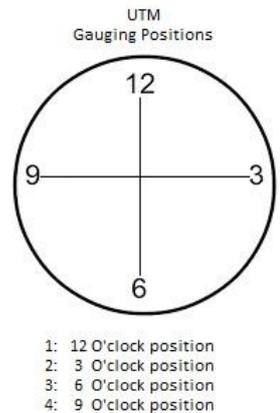
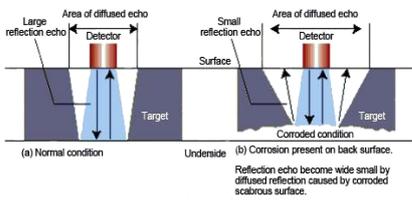
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ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE



Client: Hilong Oil Services & Engineering	Location: Hilong - 22 / ZB-622	Inspection Date: 04-Dec-2024	
Certificate No: ATS-12-24-4628-UTM-001-9	Work order & Job No#: ATS-12-24-4628	Inspection Due Date: 03-Dec-2025	
Item Description: Poorboy Degasser(Inlet Line)			
Serial No#: 15-1-09			
Relative Standards/Specifications: ASTM E 797 & Client Specifications		Material: Carbon Steel	
Surface Condition: Brushed and Cleaned		Surface Temperature: 22 C°	
Measuring Equipment			
UTM Instrument - Maker: Sona Test	Model: Sonagage IV	S. No.: 05058473	Calibration Date: 28-June-2024
			Calibration Due Date: 27-Dec-2024
Pit Depth Gauge - Maker: New Tech	Model: NAA-4-M11118	S. No.: 97594	Calibration Date: 28-June-2024
			Calibration Due Date: 27-Dec-2024

Sketch or picture (direct on this page or attached)



UTM Results

Position	Nominal Wall Thickness	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	Nil	Need to be Provided from OEM by the client	7.44	6.97	7.01	6.88	Need Review
A2		Need to be Provided from OEM by the client	6.67	5.98	6.05	5.88	Need Review
A3		Need to be Provided from OEM by the client	6.42	5.78	5.64	5.78	Need Review
A4		Need to be Provided from OEM by the client	67.93	7.23	7.10	7.12	Need Review

Result:
 1- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND ALL ACTUAL WALL THICKNESS READINGS SHOULD BE REVIEWED AGAINST THE OEM DOCUMENTS WHICH SHALL BE PROVIDED FROM THE OEM BY THE CLIENT

Inspector Name:	Tayyab Abbasi	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	05-Dec-2024	
Signature:		Signature:		



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