HILONG

HILONG GROUP OF COMPANIES

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:	**06 – December – 2024**
Next Inspection Date:	**05 – December – 2025**
Inspector Name:	**Aram Dlawar**

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Inspection Summary Report

Report No:	ATS-12-24-4628-UTM-025	Job No:	ATS-12-24-4628
Customer:	**Hilong Oil Services & Engineering**	Examination date:	06–December–2024
Location:	HL-22 / ZB-622	Next Due date:	05–December–2025

Equipment Details:		
Name of the Examined Equipment:	Flare line	
Summary of Procedures:		
Description of Step	Status	Remark
Visually Check For Any Damage Wear Distortion ……etc.	✓	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	
Aram Dlawar		

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Tel: +964 7833334444 +964 7822222633

ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

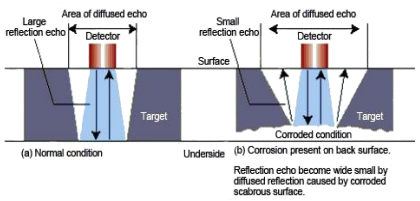
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

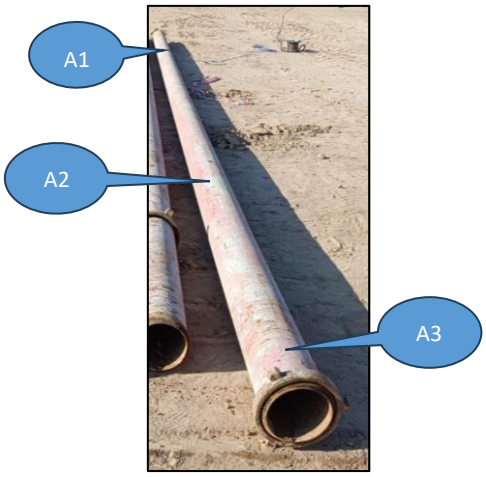
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-1	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-01		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

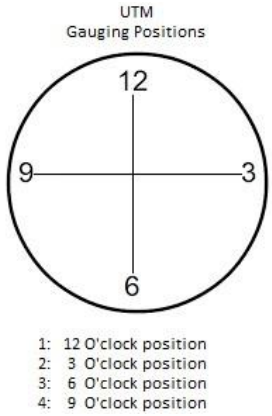
Measuring Equipment

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	6.27	6.20	6.30	6.25	Need Review
A2		Need to be Provided from OEM by the client	6.30	6.40	6.48	6.35	Need Review
A3		Need to be Provided from OEM by the client	6.61	6.65	6.53	6.45	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
Signature:		**Signature:**		

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Tel: +964 7833334444 +964 7822222633

ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

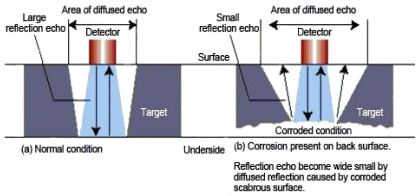
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

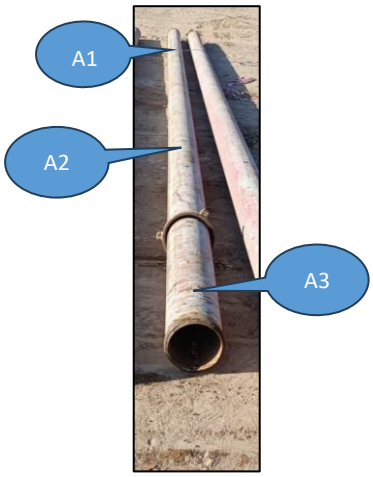
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-2	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-02		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

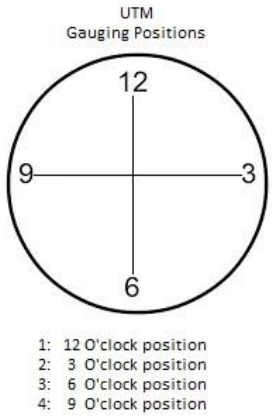
Measuring Equipment

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	6.40	6.45	6.35	6.62	Need Review
A2		Need to be Provided from OEM by the client	6.50	6.44	6.48	6.53	Need Review
A3		Need to be Provided from OEM by the client	6.28	6.30	6.35	6.40	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
Signature:		**Signature:**		

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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

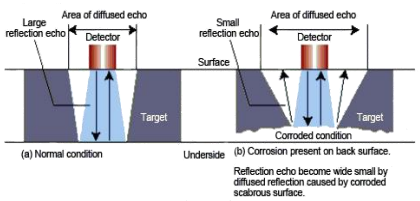
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

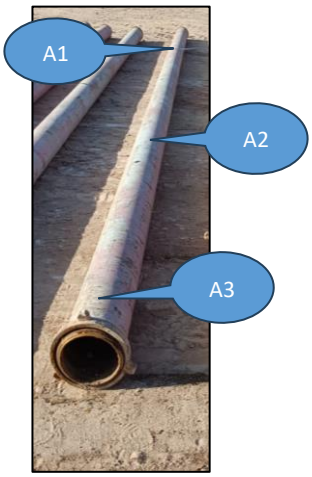
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-3	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-03		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

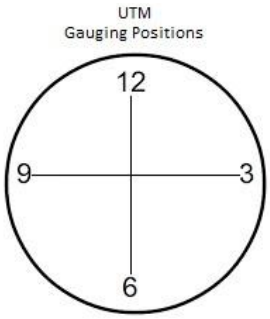
Measuring Equipment

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 □)







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	6.38	6.33	6.35	6.28	Need Review
A2		Need to be Provided from OEM by the client	6.30	6.50	6.40	6.45	Need Review
A3		Need to be Provided from OEM by the client	6.36	6.39	6.44	6.25	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**

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Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
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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:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-4	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	

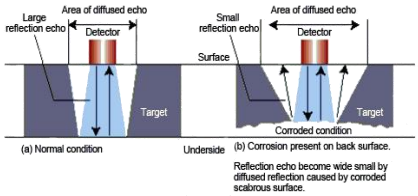
Serial No#: FL-04

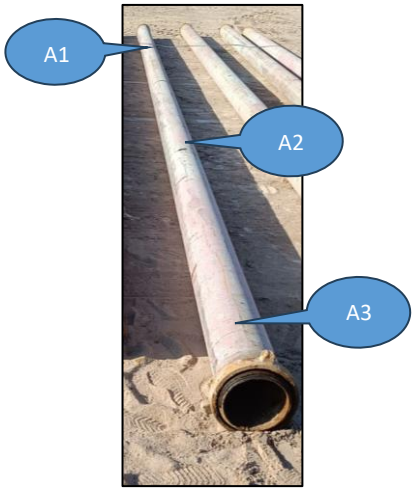
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°

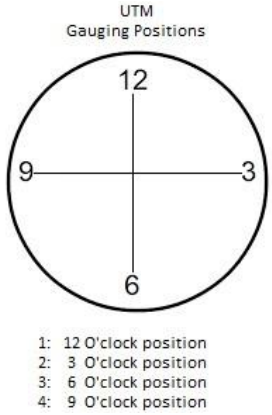
Measuring Equipment

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	6.14	6.20	6.10	6.15	Need Review
A2		Need to be Provided from OEM by the client	6.90	6.88	6.90	6.78	Need Review
A3		Need to be Provided from OEM by the client	6.40	6.45	6.35	6.38	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**

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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

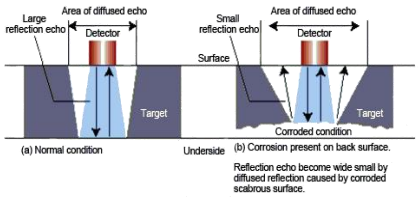
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

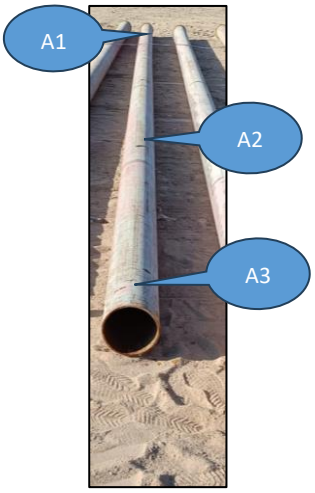
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-5	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-05		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

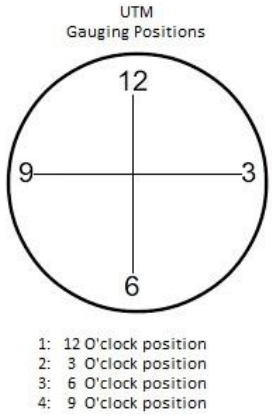
Measuring Equipment

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	6.49	6.30	6.35	6.38	Need Review
A2		Need to be Provided from OEM by the client	5.86	5.90	5.99	6.05	Need Review
A3		Need to be Provided from OEM by the client	6.10	6.15	6.13	6.26	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

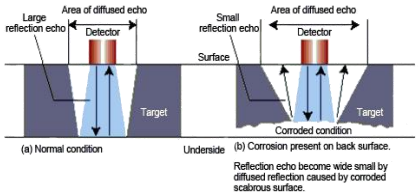
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

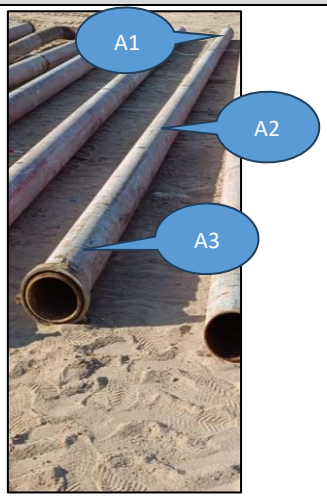
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-6	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-06		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

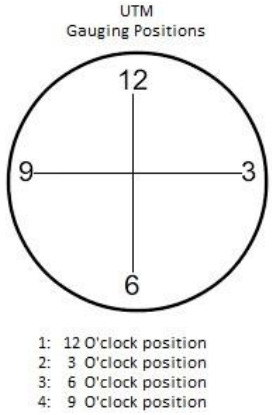
Measuring Equipment

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	6.49	6.30	6.35	6.38	Need Review
A2		Need to be Provided from OEM by the client	5.86	5.90	5.99	6.05	Need Review
A3		Need to be Provided from OEM by the client	6.10	6.15	6.13	6.26	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**

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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

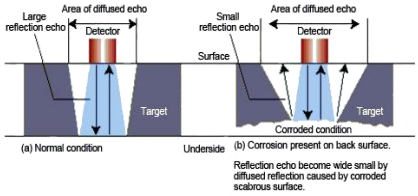
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

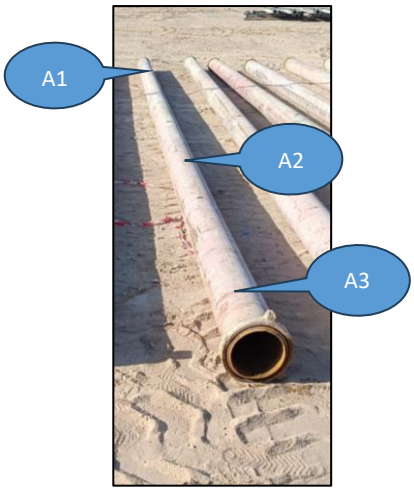
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-7	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-07		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

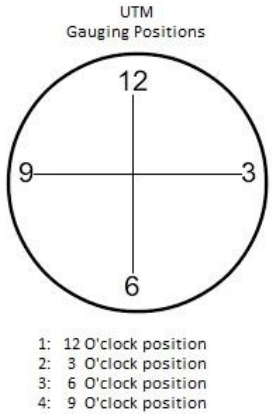
Measuring Equipment

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	6.31	6.28	6.44	6.35	Need Review
A2		Need to be Provided from OEM by the client	6.36	6.30	6.38	6.25	Need Review
A3		Need to be Provided from OEM by the client	6.26	6.20	6.15	6.24	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
Signature:		**Signature:**		

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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

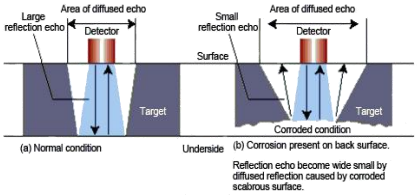
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

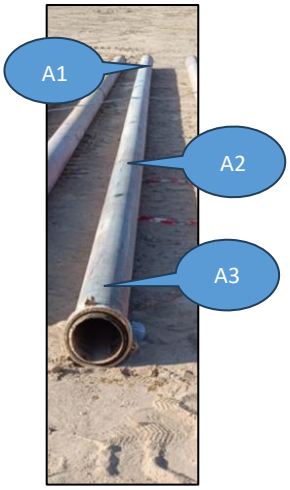
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-8	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-08		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

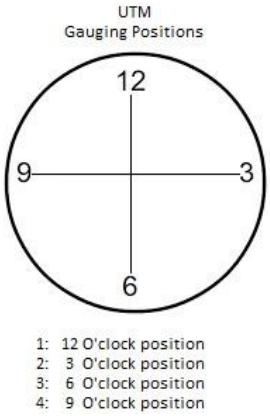
Measuring Equipment

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	6.40	6.45	6.38	6.33	Need Review
A2		Need to be Provided from OEM by the client	6.90	6.88	6.83	6.79	Need Review
A3		Need to be Provided from OEM by the client	6.31	6.30	6.34	6.35	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
Signature:		**Signature:**		

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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

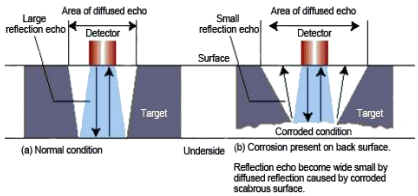
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

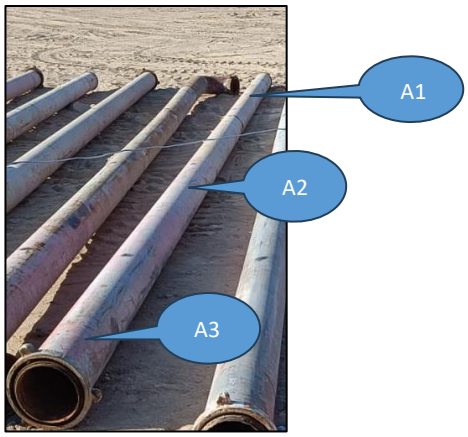
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-9	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-09		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

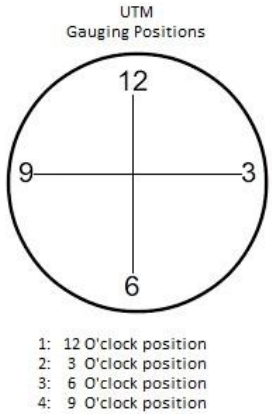
Measuring Equipment

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	6.32	6.30	6.28	6.25	Need Review
A2		Need to be Provided from OEM by the client	6.44	6.40	6.45	6.28	Need Review
A3		Need to be Provided from OEM by the client	6.31	6.28	6.22	6.20	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
Signature:		**Signature:**		

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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

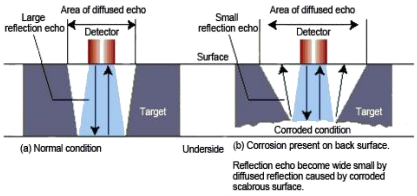
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

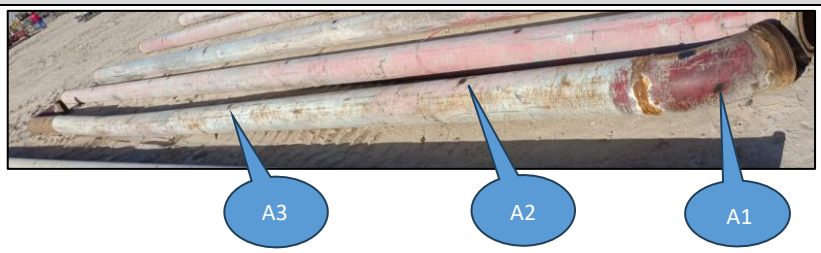
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-10	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-10		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

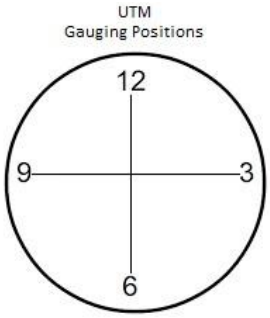
Measuring Equipment

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 ☐)







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	9.53	9.60	9.66	9.68	Need Review
A2		Need to be Provided from OEM by the client	6.44	6.40	6.38	6.35	Need Review
A3		Need to be Provided from OEM by the client	6.53	6.50	6.48	6.55	Need Review
A4		Need to be Provided from OEM by the client	6.48	6.50	6.35	6.40	Need Review
A5		Need to be Provided from OEM by the client	5.63	5.60	5.59	5.63	Need Review
A6		Need to be Provided from OEM by the client	9.53	9.60	9.62	9.64	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
Signature:		**Signature:**		

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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

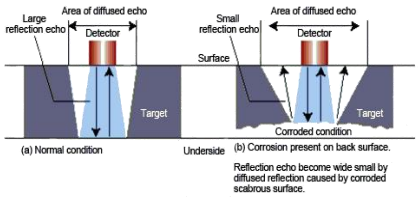
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

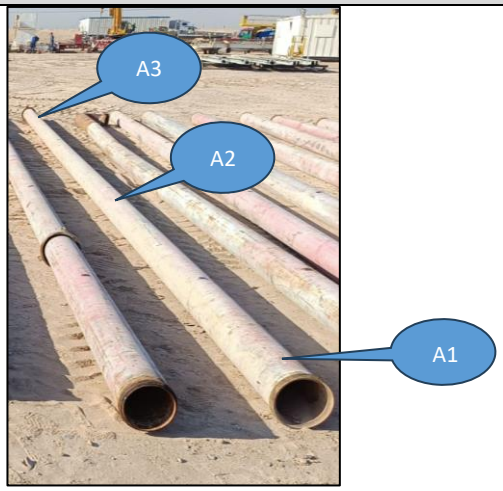
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-11	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-11		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

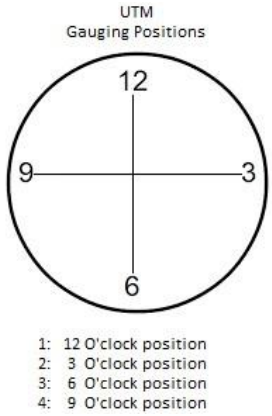
Measuring Equipment

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	6.44	6.40	6.38	6.30	Need Review
A2		Need to be Provided from OEM by the client	6.40	6.25	6.30	6.28	Need Review
A3		Need to be Provided from OEM by the client	6.31	6.30	6.18	6.22	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

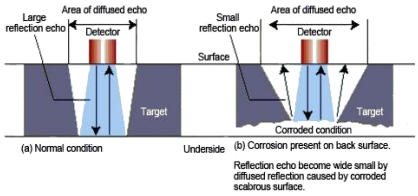
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

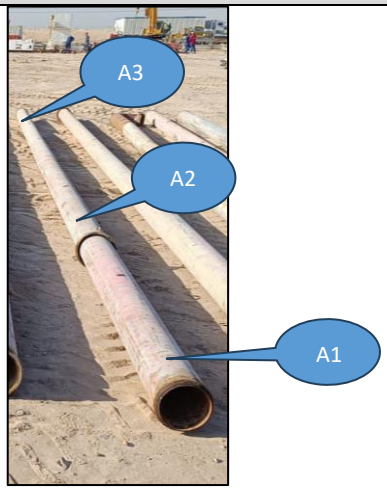
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-12	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-12		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

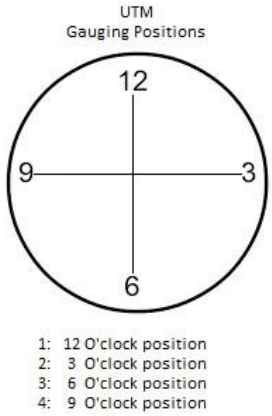
Measuring Equipment

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	6.10	6.15	6.20	6.18	Need Review
A2		Need to be Provided from OEM by the client	6.00	6.05	5.98	5.88	Need Review
A3		Need to be Provided from OEM by the client	6.29	6.25	6.20	6.30	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-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:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-13	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	

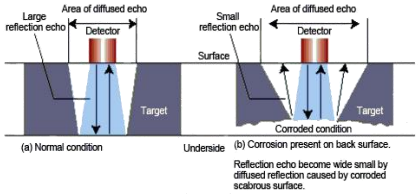
Serial No#: FL-13

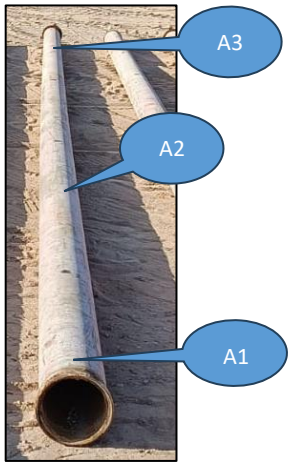
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°

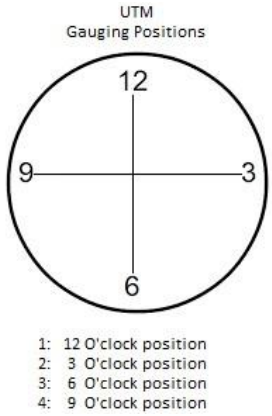
Measuring Equipment

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	6.31	6.28	6.25	6.30	Need Review
A2		Need to be Provided from OEM by the client	6.19	6.15	6.18	6.10	Need Review
A3		Need to be Provided from OEM by the client	6.23	6.20	6.25	6.30	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
Signature:		**Signature:**		

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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

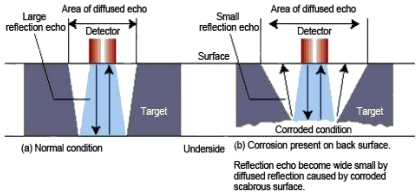
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

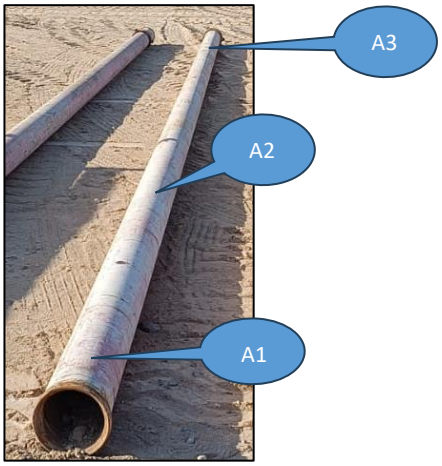
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-14	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-14		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

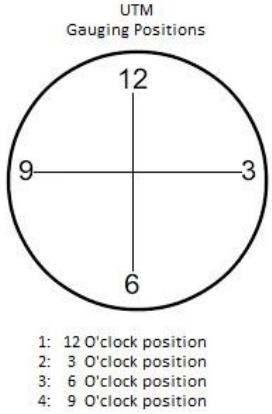
Measuring Equipment

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	6.38	6.30	6.26	6.40	Need Review
A2		Need to be Provided from OEM by the client	6.66	6.54	6.53	6.60	Need Review
A3		Need to be Provided from OEM by the client	6.36	6.30	6.20	6.26	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-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:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-15	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	

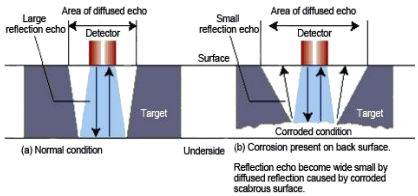
Serial No#: FL-15

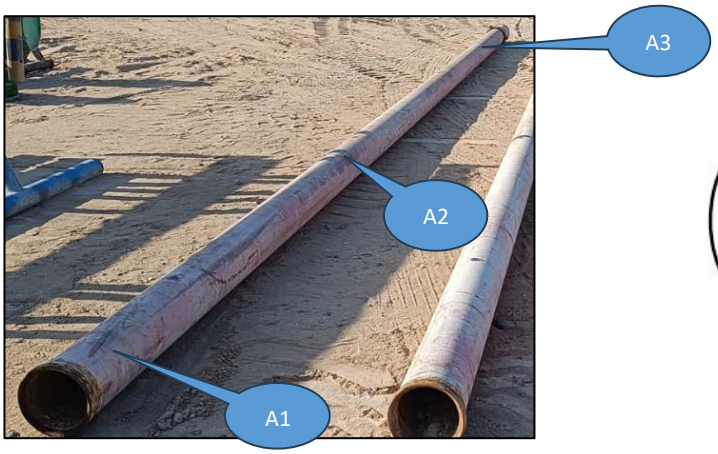
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°

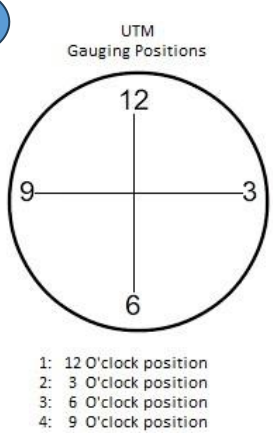
Measuring Equipment

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	6.44	6.40	6.35	6.28	Need Review
A2		Need to be Provided from OEM by the client	6.66	6.50	6.48	6.52	Need Review
A3		Need to be Provided from OEM by the client	6.86	6.80	6.78	6.75	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
Signature:		**Signature:**		

Email: akader@aberdeents.com
inspection@aberdeents-iq.com
Tel: +964 7833334444 +964 7822222633

ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

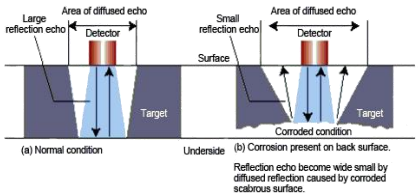
ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

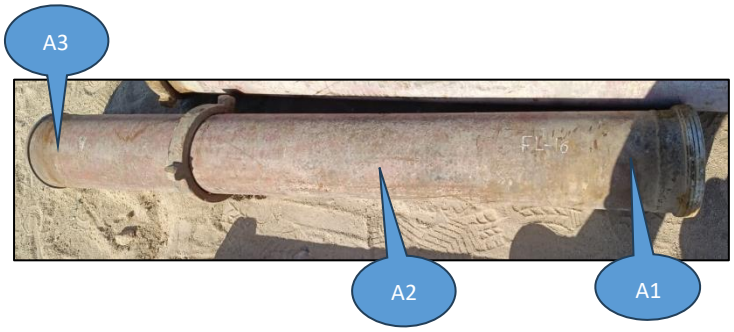
Client: Hilong Oil Services & Engineering	**Location:** Hilong - 22 / ZB – 622	**Inspection Date:** 06-Dec-2024
Certificate No: ATS-12-24-4628-UTM-025-16	**Work order & Job No#:** ATS-12-24-4628	**Inspection Due Date:** 05-Dec-2025
Item Description:	flare line	
Serial No#: FL-16		
Relative Standards/Specifications: ASTM E 797 & Client Specifications	**Material:** Carbon Steel	
Surface Condition: Brushed and Cleaned	**Surface Temperature:** 22 C°	

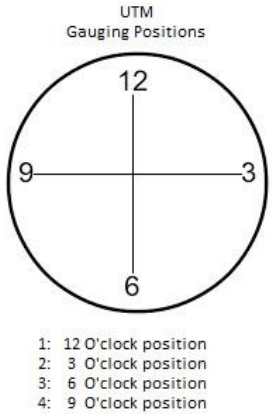
Measuring Equipment

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	6.20	6.30	628	6.33	Need Review
A2		Need to be Provided from OEM by the client	6.25	6.59	6.21	6.22	Need Review
A3		Need to be Provided from OEM by the client	6.30	6.33	6.21	6.26	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:	**Aram Dlawar**	**Reviewed by:**	**Hasan Omran**	**Signature & Stamp**
Qualification:	**ASNT Level II**	**Date:**	**07-Dec-2024**	
Signature:		**Signature:**		

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