



Inspection Service

This Service Presented To

HILONG

Inspection Service:

UT Wall Thickness

Customer:

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

Work Location:

HL – 100 / RU – 644

Inspection Date:

11 – July – 2024

Next Inspection Date:

10 – July – 2025

Inspector Name:

Syed Aamir Ali





Inspection Summary Report

Report No:	ATS-07-24-4028	Job No:	ATS-07-24-4028
Customer:	Hilong Oil Services & Engineering	Examination date:	11-July-2024
Location:	HL – 100 / RU – 644	Next Due date:	10-July-2025



Equipment Details:			
Name of the Examined Equipment:		Chiksan Swivel:	
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	
UT Interpretation against ASTM E797 Acceptance Criteria:	✓	Pass	
ASNT Level II Inspector Name:		Signature & Stamp	
Syed Aamir Ali			





ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-001	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)

Serial No#: SW – 001

Relative Standards/Specifications: ASTM E 797 & Client Specifications **Material:** 30CrMoA Low Carbon Alloy Steel

Surface Condition: Brushed and Cleaned **Surface Temperature:** 38 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: Shows a flat surface with a detector and a target. A large reflection echo is shown. Area of diffused echo is small.

(b) Corrosion present on back surface: Shows a surface with a detector and a target. A small reflection echo is shown. Area of diffused echo is large. 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	8	13.27	13.12	13.23	13.32	Accepted
A2		8	19.54	19.43	19.34	19.43	Accepted
A3		8	19.68	19.19	19.82	19.13	Accepted
A4		8	19.49	19.53	19.57	19.51	Accepted

Result:

1- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		





ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-002	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025
Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)		
Serial No#: SW – 002		
Relative Standards/Specifications: ASTM E 797 & Client Specifications		Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned		Surface Temperature: 38 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: Shows a detector emitting a beam towards a target. A large reflection echo is shown, and the area of diffused echo is small.

(b) Corrosion present on back surface: Shows a detector emitting a beam towards a target. A small reflection echo is shown, and the area of diffused echo is large. Text below: "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	8	14.19	14.23	14.17	14.21	Accepted
A2		8	19.51	19.39	19.43	19.49	Accepted
A3		8	19.61	19.53	19.58	19.51	Accepted
A4		8	19.50	19.53	19.55	19.57	Accepted

Result:

2- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-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 - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-003	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025
Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)		
Serial No#: K – 02		
Relative Standards/Specifications: ASTM E 797 & Client Specifications		Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned		Surface Temperature: 38 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: Large reflection echo, Area of diffused echo, Detector, Surface, Target.

(b) Corrosion present on back surface: 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	8	14.19	14.23	14.17	14.21	Accepted
A2		8	19.51	19.39	19.43	19.49	Accepted
A3		8	19.61	19.53	19.58	19.51	Accepted
A4		8	19.50	19.53	19.55	19.57	Accepted

Result:

3- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-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 - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-004	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: K – 03

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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 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	8	14.29	14.21	14.23	14.27	Accepted
A2		8	19.50	19.41	19.47	19.43	Accepted
A3		8	19.63	19.56	19.59	19.60	Accepted
A4		8	19.57	19.53	19.52	19.59	Accepted

Result:
 4- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		





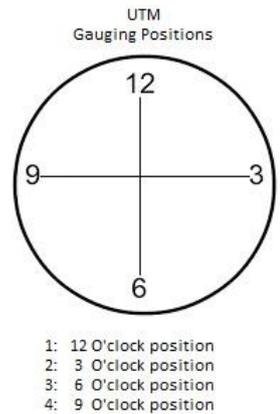
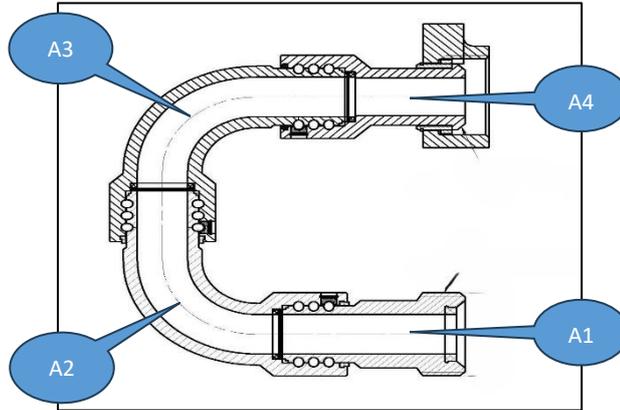
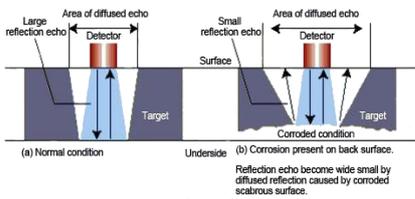
ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-005	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025
Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)		
Serial No#: HL – 003		
Relative Standards/Specifications: ASTM E 797 & Client Specifications		Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned		Surface Temperature: 38 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)



UTM Results

Position:	Nominal Wall Thickness	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	Nil	8	14.37	14.31	14.33	14.36	Accepted
A2		8	19.51	19.43	19.49	19.45	Accepted
A3		8	19.65	19.58	19.61	19.63	Accepted
A4		8	19.56	19.51	19.55	19.62	Accepted

Result:
5- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		





ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-006	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: HL – 004

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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	8	14.39	14.33	14.35	14.38	Accepted
A2		8	19.53	19.45	19.51	19.47	Accepted
A3		8	19.67	19.60	19.63	19.65	Accepted
A4		8	19.58	19.53	19.57	19.64	Accepted

Result:
 6- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		





ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-007	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: HL – 005

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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 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	8	14.41	14.35	14.37	14.42	Accepted
A2		8	19.55	19.47	19.53	19.49	Accepted
A3		8	19.69	19.63	19.65	19.67	Accepted
A4		8	19.60	19.55	19.59	19.66	Accepted

Result:
 7- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-008	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025
Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)		
Serial No#: HL – 006		
Relative Standards/Specifications: ASTM E 797 & Client Specifications		Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned		Surface Temperature: 38 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) Corrosion present on back surface: 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	8	14.43	14.37	14.39	14.44	Accepted
A2		8	19.57	19.49	19.55	19.50	Accepted
A3		8	19.71	19.65	19.67	19.69	Accepted
A4		8	19.62	19.57	19.61	19.68	Accepted

Result:

8- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ATS-NDF-F-005 ISSUE 3 JUN 2023

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ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-009	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: HL – 007

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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 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	8	14.40	14.34	14.35	14.41	Accepted
A2		8	19.54	19.46	19.52	19.47	Accepted
A3		8	19.68	19.62	19.64	19.66	Accepted
A4		8	19.59	19.54	19.58	19.65	Accepted

Result:

9- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		





ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-010	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: HL – 008

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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 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	8	14.38	14.32	14.33	14.39	Accepted
A2		8	19.52	19.44	19.50	19.45	Accepted
A3		8	19.66	19.60	19.62	19.64	Accepted
A4		8	19.57	19.52	19.56	19.63	Accepted

Result:
 10- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-011	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: HL – 009

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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, Surface, Target.

(b) Corrosion present on back surface: Small reflection echo, Area of diffused echo, 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	8	14.39	14.33	14.34	14.39	Accepted
A2		8	19.53	19.45	19.51	19.46	Accepted
A3		8	19.67	19.61	19.63	19.65	Accepted
A4		8	19.58	19.53	19.57	19.64	Accepted

Result:

11- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-012	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: HL – 0010

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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 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	8	14.42	14.36	14.37	14.41	Accepted
A2		8	19.58	19.53	19.57	19.64	Accepted
A3		8	19.69	19.63	19.65	19.67	Accepted
A4		8	19.59	19.55	19.57	19.63	Accepted

Result:
 12- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-013	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: 58P 15

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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	8	14.43	14.37	14.39	14.43	Accepted
A2		8	19.59	19.55	19.59	19.65	Accepted
A3		8	19.61	19.65	19.67	19.69	Accepted
A4		8	19.63	19.57	19.59	19.65	Accepted

Result:
 13- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-014	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: C – 01

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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 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	8	14.59	14.55	14.59	14.63	Accepted
A2		8	19.69	19.76	19.70	19.75	Accepted
A3		8	19.71	19.75	19.77	19.79	Accepted
A4		8	19.73	19.77	19.79	19.75	Accepted

Result:

14- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-015	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: C – 02

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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)

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	8	14.61	14.57	14.63	14.65	Accepted
A2		8	19.71	19.73	19.72	19.74	Accepted
A3		8	19.73	19.77	19.79	19.81	Accepted
A4		8	19.75	19.79	19.83	19.77	Accepted

Result:
 15- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU - 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-016	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2" fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: 18060240006

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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 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	8	14.63	14.59	14.65	14.67	Accepted
A2		8	19.73	19.75	19.74	19.76	Accepted
A3		8	19.75	19.79	19.80	19.83	Accepted
A4		8	19.77	19.81	19.85	19.79	Accepted

Result:
 16- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-017	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: 18060240101

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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, Surface, Target.

(b) Corrosion present on back surface: Small reflection echo, Area of diffused echo, 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	8	14.65	14.62	14.67	14.69	Accepted
A2		8	19.75	19.77	19.75	19.77	Accepted
A3		8	19.77	19.81	19.83	19.85	Accepted
A4		8	19.79	19.83	19.87	19.82	Accepted

Result:
 17- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-018	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: 18060240097

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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	8	14.67	14.65	14.69	14.66	Accepted
A2		8	19.77	19.79	19.76	19.78	Accepted
A3		8	19.79	19.83	19.85	19.87	Accepted
A4		8	19.81	19.85	19.83	19.80	Accepted

Result:
 18- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-019	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: 18060240092

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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, Surface, Target.

(b) Corrosion present on back surface: Small reflection echo, Area of diffused echo, 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	8	14.67	14.63	14.65	14.61	Accepted
A2		8	19.71	19.79	19.73	19.75	Accepted
A3		8	19.73	19.83	19.87	19.85	Accepted
A4		8	19.82	19.84	19.85	19.81	Accepted

Result:
 19- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU - 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-020	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2" fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: 18060240093

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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 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	8	14.19	14.23	14.17	14.21	Accepted
A2		8	19.51	19.39	19.43	19.49	Accepted
A3		8	19.61	19.53	19.58	19.51	Accepted
A4		8	19.50	19.53	19.55	19.57	Accepted

Result:
20- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-021	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: 18060240022

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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, Surface, Target.

(b) Corrosion present on back surface: Small reflection echo, Area of diffused echo, 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	8	14.41	14.35	14.37	14.42	Accepted
A2		8	19.55	19.47	19.53	19.49	Accepted
A3		8	19.69	19.63	19.65	19.67	Accepted
A4		8	19.60	19.55	19.59	19.66	Accepted

Result:

21- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU - 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-022	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2" fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: 18060240082

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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, Surface, Target.

(b) Corrosion present on back surface: Small reflection echo, Area of diffused echo, 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	8	14.37	14.31	14.33	14.36	Accepted
A2		8	19.51	19.43	19.49	19.45	Accepted
A3		8	19.65	19.58	19.61	19.63	Accepted
A4		8	19.56	19.51	19.55	19.62	Accepted

Result:
 22- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE

Client: Hilong Oil Services & Engineering	Location: Hilong - 100 / RU – 644	Inspection Date: 11-July-2024
Certificate No: ATS-07-24-4028-UTM-023	Work order & Job No#: ATS-07-24-4028	Inspection Due Date: 10-July-2025

Item Description: Chiksan Swivel: 2” fig 1502 , 35 Mpa (Attach with Mud Pump)
Serial No#: 18607249996

Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low Carbon Alloy Steel
Surface Condition: Brushed and Cleaned	Surface Temperature: 38 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, Surface, Detector, Target.

(b) Corrosion present on back surface: Small reflection echo, Area of diffused echo, Corroded condition, Detector, 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	8	14.40	14.34	14.35	14.41	Accepted
A2		8	19.54	19.46	19.52	19.47	Accepted
A3		8	19.68	19.62	19.64	19.66	Accepted
A4		8	19.59	19.54	19.58	19.65	Accepted

Result:
 23- UTM WAS CARRIED OUT ON THE ITEM AS MENTIONED EARLIER AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS / OEM DOCUMENTS AT THE TIME OF INSPECTION:

Inspector Name:	Syed Aamir Ali	Reviewed by:	Hasan Omran	Signature & Stamp
Qualification:	ASNT Level II	Date:	11-July-2024	
Signature:		Signature:		