Basra, North Rumaila, Quality Control Yard - Iraq

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CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client Name:	HALLIBURTONLocation:HPS YARDJob Number:			QC/24/HALL-0106A-01	
Date of Examination:	01/06/2024	Due Date:	30/11/2024	Certificate No:	010624
Serial No:	Item Description Final Remark				
89141-RA1	ADJUSTABLE ADOPTER				Satisfactory
Type of Inspection	Visual & Magnetic Particle Inspection				
Reference Standard	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				



VISUAL, THOROUGH EXAMINATION	The above-mentioned equipment is visually Inspected and Found Free from Deformations, Corrosion, And Other Defects.	
MAGNETIC PARTICLE INSPECTION	M.P.I Has Been Done on Available Critical Areas and Found Free from Cracks and Other Defects.	
FINAL RESULTS	As Per the Client Specification, the Inspected Areas Was Accepted at The Time of Inspection Useable.	

NDT Equipment Details					
Yoke	Yoke Permanent Serial No: PY-02 Due Date 14-10-2024				
White Contrast	WCP-2	Batch No:	220602	Due Date	06-2025
Black Ink	7HF	Batch No:	220605	Due Date	7-1-2025

· · · · · · · · · · · · · · · · · · ·	Reviewed By: NDT LEVEL II	Signature & Stamp	Client Signature & Stamp
Aizaz Farhat	Naveed Hussein	LIF GEORGE	





















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Client Name:	HALLIBURTON	Location:	HPS YARD	Job Number:	QC/24/HALL-0106A-02
Date of Examination:	01/06/2024	Due Date:	30/11/2024	Certificate No:	010624
Serial No:		Final Remarks			
89141-RA2	ADJUSTABLE ADOPTER				Satisfactory
Type of Inspection	Visual & Magnetic Particle Inspection				
Reference Standard	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				



VISUAL, THOROUGH EXAMINATION	The above-mentioned equipment is visually Inspected and Found Free from Deformations, Corrosion, And Other Defects.
MAGNETIC PARTICLE INSPECTION	M.P.I Has Been Done on Available Critical Areas and Found Free from Cracks and Other Defects.
FINAL RESULTS	As Per the Client Specification, the Inspected Areas Was Accepted at The Time of Inspection Useable.

NDT Equipment Details					
Yoke	Yoke Permanent Serial No: PY-02 Due Date 14-10-2024				
White Contrast	WCP-2	Batch No:	220602	Due Date	06-2025
Black Ink	7HF	Batch No:	220605	Due Date	7-1-2025

Inspector Name: N	NDT LEVEL II	Signature & Stamp	Client Signature & Stamp
Aizaz Farhat I	Naveed Hussein	LIF G CONTROL G	





















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CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client Name:	HALLIBURTON Location: HPS YARD Job Number:			QC/24/HALL-0106A-03	
Date of Examination:	01/06/2024	Due Date:	30/11/2024	Certificate No:	010624
Serial No:		Final Remarks			
193-52579	LIFTING CAP				Satisfactory
Type of Inspection	Visual & Magnetic Particle Inspection				
Reference Standard	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				



VISUAL, THOROUGH EXAMINATION	The above-mentioned equipment is visually Inspected and Found Free from Deformations, Corrosion, And Other Defects.	
MAGNETIC PARTICLE INSPECTION	M.P.I Has Been Done on Available Critical Areas and Found Free from Cracks and Other Defects.	
FINAL RESULTS	As Per the Client Specification, the Inspected Areas Was Accepted at The Time of Inspection Useable.	

NDT Equipment Details					
Yoke	Yoke Permanent Serial No: PY-02 Due Date 14-10-2024				
White Contrast	WCP-2	Batch No:	220602	Due Date	06-2025
Black Ink	7HF	Batch No:	220605	Due Date	7-1-2025

ASNT Level II / LEEA Inspector Name:	Reviewed By: NDT LEVEL II	Signature & Stamp	Client Signature & Stamp
Aizaz Farhat	Naveed Husein	LIF G CONTROL G	





















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Client Name:	HALLIBURTON	Location:	HPS YARD	Job Number:	QC/24/HALL-0106A-04
Date of Examination:	01/06/2024	Due Date:	30/11/2024	Certificate No:	010624
Serial No:	Item Description			Final Remarks	
ST-CTU-05	INJECTOR HEAD STAND			Satisfactory	
Type of Inspection	Visual & Magnetic Particle Inspection				
Reference Standard	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				







VISUAL, THOROUGH EXAMINATION	The above-mentioned equipment is visually Inspected and Found Free from Deformations, Corrosion, And Other Defects.
MAGNETIC PARTICLE INSPECTION	M.P.I Has Been Done on Available Critical Areas and Found Free from Cracks and Other Defects.
FINAL RESULTS	As Per the Client Specification, the Inspected Areas Was Accepted at The Time of Inspection Useable.

NDT Equipment Details					
Yoke	Yoke Permanent Serial No: PY-02 Due Date 14-10-2024				
White Contrast	WCP-2	Batch No:	220602	Due Date	06-2025
Black Ink	7HF	Batch No:	220605	Due Date	7-1-2025

· · · · · · · · · · · · · · · · · · ·	Reviewed By: NDT LEVEL II	Signature & Stamp	Client Signature & Stamp
Aizaz Farhat	Naveed Hussein	LIF GEORGE	





















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Client	HALLIBURTON	Report No:	QC/24/HALL-0106A-05
Item Description	TRAILAR	Job No:	010624
General Scope of Activity	Coiled Tubing Unit-7 Trailar Structure	Date of Inspection	01/06/2024
Place of Inspection	HPS Yard	Valid Until:	30/11/2024

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 01-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Trailar Structure
- 1.2) Functional Test of vehicle.
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **TRAILAR STRUCTURE**, **SAP No- 12196232** was carried out and found satisfactory.
- 2.2) Functional Test of Vehicle.
- 2.3) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) TRAILAR STRUCTURE

SAP No:	12196232	
Location:	Coiled Tubing Unit - CTU 07	





















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3.1) Visual Inspection:

- The visual Inspection of the **TRAILAR STRUCTURE** was carried out as follows:
- The Structure welds of the TRAILAR were inspected and NO visible damages observed
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Functional Test:

The Function test of the TRUCK HEAD was carried out as follow:

- Movement.
- · Breaks.
- Electricals
- Hydraulics
- Indicators

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above **TRAILAR** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















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This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Photographs Of Activity



	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF QUELITY	Tor Ingineering	
DEV/O1 DATED: 20 IIIN	IE 2022		<u> </u>

REV:01 DATED: 20 JUNE 2022





















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CERTIFICATE OF THOROUGH EXAMINATION

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Client	HALLIBURTON	Report No:	QC/24/HALL-0106A-06
Item Description	TRUCK HEAD	Job No:	010624
General Scope of Activity	Coiled Tubing Unit-7 Truck Head Structure	Date of Inspection	01/06/2024
Place of Inspection	HPS Yard	Valid Until:	30/11/2024

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 01-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Truck Head Structure
- 1.2) Functional Test of vehicle.
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **TRUCK HEAD STRUCTURE**, **SAP No- 121773665** was carried out and found satisfactory.
- 2.2) Functional Test of Vehicle.
- 2.3) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) TRUCK HEAD STRUCTURE

SAP No:	121773665
REG No:	1895- BASRA
Location:	Coiled Tubing Unit - CTU 07





















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3.1) Visual Inspection:

- The visual Inspection of the **TRUCK HEAD STRUCTURE** was carried out as follows:
- The Structure welds of the TRUCK HEAD were inspected and NO visible damages observed
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Functional Test:

The Function test of the TRUCK HEAD was carried out as follow:

- Movement.
- · Breaks.
- Electricals
- Hydraulics
- Indicators
- Head Lights

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above **TRUCK HEAD** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















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Photographs Of Activity



	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF QUELITY	Tor Ingineering	
DEV/O1 DATED: 20 IIIN	IE 2022		<u> </u>

REV:01 DATED: 20 JUNE 2022





















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Client	HALLIBURTON	Report No:	QC/24/HALL-0106A-07
Item Description	CABIN	Job No:	010624
General Scope of Activity	Coiled Tubing Unit-7 Cabin Structure	Date of Inspection	01/06/2024
Place of Inspection	HPS Yard	Valid Until:	30/11/2024

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 011-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit CABIN Structure
- 1.2) Functional Test of Hydraulic Jacks.
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **CABIN STRUCTURE**, **SAP No- 12166234** was carried out and found satisfactory.
- 2.2) Functional Test of Hydraulic Jacks.
- 2.3) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) CABIN STRUCTURE

SAP No:	12166234	
Location:	Coiled Tubing Unit - CTU 07	





















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CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- CABIN STRUCTURE was carried out as follows:
- The Structure welds of the CABIN were inspected and NO visible damages observed
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Functional Test:

 The Function test of the Coil Tubing Unit- CABIN STRUCTURE Hydraulic jacks was done and found satisfctoy

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **CABIN STRUCTURE** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















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This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Photographs Of Activity





	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector (akamu)	Supervisor	
SIGNATURE & SEAL	LIF CONTROL	Tor yngineering	
REV:01 DATED: 20 JUN	IF 2022		_





















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CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client	HALLIBURTON	Report No:	QC/24/HALL-0106A-08	
Item Description	REEL	Job No:	010624	
General Scope of Activity	Coiled Tubing Unit-7 Reel Structure	Date of Inspection	01/06/2024	
Place of Inspection	HPS Yard Valid Until: 30/11/2024			
Reference Standards:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 01-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Reel Structure
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **REEL STRUCTURE**, **ID No- 12196236** and accessories including structure was carried out and found satisfactory.
- 2.2) MPI was performed on accessible **Structure welds**, **Pad eyes and its associated welds**. The result was found satisfactory.
- 2.3) Dimensions of pad eyes were taken. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) REEL STRUCTURE

ID No	12196236
Location:	Coiled Tubing Unit – CTU-07





















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This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- **REEL STRUCTURE** was carried out as follows:
- The Structure welds of the Unit were inspected and NO visible damages observed
- The visual Inspection of **Pad Eyes** was done and found satisfactory.
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

- Accessible Structure Welds
- Pad Eyes and its Associated welds

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- REEL STRUCTURE was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















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Photographs Of Activity







PAD EYE DIMENSION				
Serial N	PE-01,	PE-02		SWL
THICK.	HOLE	SVVL		
14 mm	17 mn	58 mm	114 mm	2 TON

























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PAD EYE DIMENSION				
Serial N	PE-03,	PE-04		SWL
THICK.	HOLE	HEIGHT	WIDTH	SVVL
51 mm	78 mn	162 mm	255mm	55 TON





	PAD EYE DIMENSION				
Serial N	RPE-01	L, RPE-02		CVA/I	
THICK.	HOLE	HEIGHT	WIDTH	SWL	
51 mm	78 mn	162 mm	255mm	55 TON	





	Equipment Details					Tech	nical Details		
Equipment:	AC/DC Test B		Equipment:	Digital Lux Meter	Equipment:	AC/DC PERMANE MAGN	T HAND	Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml
Serial No:	165	7	Serial No:	2722003	Serial No:	PY - (PY -	_	Method	Wet Magnetic Particle
Cal. Date:	14-10-2	2024	Cal. Date:	16-10-2024	Cal. Date:	14-10-	2024	Method	Testing (WMPT)
Black Magn Manufactur		N	Magnaflux	Batch No:	220605	Expiry Date:	July-2025	WMPT Light	(VOIVIPT)
White Contra Manufacture		N	Magnaflux	Batch No:	220602	Expiry Date:	June-2025	Intensity	3160 Lux

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	COMIROL Meeting	tor Ingineering	

REV:01 DATED: 20 JUNE 2022





















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CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Client	HALLIBURTON	Report No:	QC/24/HALL-0106A-09		
Item Description	HOSE REELS	Job No:	010624		
General Scope of Activity	Coiled Tubing Unit-7 Hose Reels	Date of Inspection	01/06/2024		
Place of Inspection	HPS Yard Valid Until: 30/11/2024				
Reference Standards:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 01-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Hose Reels & Associated Pad Eyes
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **Hose Reels**, **SAP No- 12196232**, and accessories including structure was conducted and found satisfactory.
- 2.2) MPI was performed on accessible Pad eyes and its associated welds. The result was found satisfactory.
- 2.3) Dimensions of pad eyes were taken. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) Hose Reels

Iden No	12196232
Location:	Coiled Tubing Unit – CTU-07





















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This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- Hose Reels were carried out as follows:
- The Lifting Accessories associated with Hose Reels were inspected for any visual damages, dents, cracks to the extent of accessibility. The results were satisfactory.
- The visual Inspection of **Pad Eyes** was done and found satisfactory.
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

Pad Eyes and its Associated welds

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- Hose Reels was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.



















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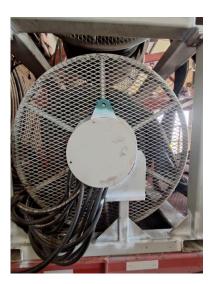
This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Photographs Of Activity





























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	PAD EYE DIMENSION				
Serial N	PE-01			SWL	
THICK.	HOLE	HEIGHT	WIDTH	SVVL	
40 mm	32 mn	94 mm	168mm	8.5 TON	

	PAD EYE DIMENSION					
Serial No:	Serial No: PE-01, PE02, PE03, PE04 SWL					
THICK.	THICK. HOLE HEIGHT WIDTH					
21 mm	20mm	120 mm	90 mm	3.25 TON		







	Equipment Details							Technical Details	
Equipment:	AC/DC Y Test Blo		Equipment:	AC/DC Yoke Test Block	Equipment:	AC/DC Yoke Test Block		Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml
Serial No:	1657	7	Serial No:	1657	Serial No:	1657	7		Wet Magnetic Particle Testing
Cal. Date:	14-10-2	024	Cal. Date:	14-10-2024	Cal. Date:	14-10-2	024	Method	
Black Magne Manufactur		N	⁄/agnaflux	Black Magnetic Ink Manufacture:	Magnaflux	Black Magnetic Ink Manufacture:	Magnaflux		(WMPT)
manaractar	C. 7			7 HF		7 HF		WMPT Light	1350 Lux
White Contra		N	Лagnaflux	Batch No:	220602	Expiry Date:	June-2025	Intensity	

ı		INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
	NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
I	DESIGNATION	Inspector	Supervisor	
1				





















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CERTIFICATE OF THOROUGH EXAMINATION & NDT

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SIGNATURE & SEAL



REV:01 DATED: 20 JUNE 2022





















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Client	HALLIBURTON	Report No:	QC/24/HALL-0106A-10		
Item Description	GOOSE NECK	Job No:	010624		
General Scope of Activity	Coiled Tubing Unit-7 Goose Neck	Date of Inspection	01/06/2024		
Place of Inspection	HPS Yard	Valid Until:	30/11/2024		
Reference Standards:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 01-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Goose Neck, Associated Pad Eyes & Lifting Accessories
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- Goose Neck, SAP No- 12196233 and accessories including structure was carried out and found satisfactory.
- 2.2) MPI was performed on accessible structure welds, pad eyes and its associated welds. The result was found satisfactory.
- 2.3) Dimensions of pad eyes were taken. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) Goose Neck

SAP No	12196233
Location:	Coiled Tubing Unit – CTU-07





















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3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- Goose Neck were carried out as follows:
- The **Lifting Accessories associated with Goose Neck** were inspected for any visual damages, dents, cracks to the extent of accessibility. The results were satisfactory.
- The Structure welds of the Unit were inspected and NO visible damages observed
- The visual Inspection of Pad Eyes was done and found satisfactory.
- No visual damages on Painting were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

- Accessible Structure Welds
- Pad Eyes and its Associated welds

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **Gooze Neck** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















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Photographs Of Activity





























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PAD EYE DIMENSION						
Serial N PE-01, PE-02						
THICK.	HOLE	HEIGHT	WIDTH	SWL		
25 mm	27mm	110000	1260000	4.75		
25111111	2/111111	118mm	12011111	TON		

PAD EYE DIMENSION						
Serial N	G-01, G-	G-01, G-02				
THICK.	HOLE	HOLE HEIGHT WIDTH				
10000	22,000	42 0000	77 mm	1.5		
1911111	22111111	43 mm	// //////	TON		









	Equipment Details						Technical Details		
Equipment:	AC/DC		Equipment:	Digital Lux Meter	Equipment:	AC/DC PERMANE MAGN	T HAND	Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml
Serial No:	165	7	Serial No:	2722003	Serial No:	PY - (PY -		Method	Wet Magnetic Particle
Cal. Date:	14-10-2	2024	Cal. Date:	16-10-2024	Cal. Date:	14-10-2	2024	ivietnou	Testing
Black Magn Manufactur		N	Magnaflux	Batch No:	220605	Expiry Date: July-2025		WMPT Light	(WMPT)
White Contra		N	Magnaflux	Batch No:	220602	Expiry Date:	Expiry Date: June-2025		3160 Lux

	·		
	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF COMPROL	Tor Ingineering	
REV:01 DATED: 20 JUN	IE 2022		





















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CERTIFICATE OF THOROUGH EXAMINATION & NDT

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Client	HALLIBURTON	Report No:	QC/24/HALL-0106A-11		
Item Description	Injector Head	Job No:	010624		
General Scope of Activity	Coil Tubing Unit-7 Injector Head	Date of Inspection	01/06/2024		
Place of Inspection	HPS Yard	Valid Until:	30/11/2024		
Reference Standards:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 01-06-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit Injector head and Accessories
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Review of maintenance records and Previous reports
- 1.4) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit-Injector head, SAP No- 12196235 and accessories including structure was carried out and found satisfactory.
- 2.2) MPI was performed on accessible structure welds, pad eyes and its associated welds. The result was found satisfactory.
- 2.3) Dimensions of pad eyes were taken. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) Injector Head

SAP NO:	12196235
MANUFACTURER	HYDRA RIG
UNIT:	CTU-07





















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3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- **Injector Head and accessories** were carried out as follows:
- The **Accessories** were inspected for any visual damages, dents, cracks to the extent of accessibility. The results were satisfactory.
- The Structure welds of the Unit were inspected and NO visible damages observed
- The visual Inspection of **Stripper** was done and found satisfactory.
- No visual damages on Painting were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

- Accessible Structure Welds
- Pad Eyes and its Associated welds
- Stripper face
- Fall Arrestor Pole

FINAL RESULT: PASS

3.3) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **Injector Head** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















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Photographs Of Activity







PAD EYE DIMENSION					
Serial N	Serial N PE-01, PE-02				
THICK.	HOLE	HEIGHT	WIDTH	SWL	
14 mm	17 mn	58 mm	114 mm	2 TON	

























Al TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED AND PROFESSIONAL SAFETY LIMITED

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PAD EYE DIMENSION					
Serial No	Serial No 36471A, 36471B, 36471C, 36471D				
THICK.	HOLE	HEIGHT	WIDTH	SWL	
24	26	6F	75	17	
24 mm	26 mm	וווווו כס	/5 mm	TON	

Serial N	36471	36471-1, 36471-2							
THICK.	HOLE	HEIGHT	WIDTH	SWL					
24 mm	26 mn	65 mm	75 mm	17 TON					









			Equi	pment Det	ails			Technical Details		
Equipment:	nent: AC/DC Yoke Test Block Test		Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml						
Serial No:	165	7	Serial No:	2722003	Serial No:		PY - 019 PY - 02		Wet Magnetic Particle	
Cal. Date:	14-10-2	2024	Cal. Date:	16-10-2024	Cal. Date:	14-10-2024		Method	Testing (WMPT)	
Black Magn Manufactur		Magnaflux		Batch No:	220605	Expiry Date:	July-2025	MAINAIDT Limbs	(VVIVIPI)	
White Contrast Paint Manufacture: WCP 2		N	Magnaflux	Batch No:	220602	Expiry Date:	June-2025	WMPT Light Intensity	3160 Lux	

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	LIF CONTROL	Tor Ingineering	
REV:01 DATED: 20 JUN	IE 2022		

REV:01 DATED: 20 JUNE 2022





















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Client	HALLIBURTON	Report No:	QC-24-06/HALL-HPS-07/C12			
Item Description	WET KIT	Job No:	QC-24-06/HALL-HPS-07			
General Scope of Activity	Coiled Tubing Unit-7 WET KIT STRUCTURE, ACCUMULATOR UTT	Date of Inspection	01-JUNE-2024			
Place of Inspection	HPS Yard Valid Until:		30-NOVEMBER-2024			
Reference Standards: ASTM E797 & ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2						

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 01-June-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit WET KIT STRUCTURE
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Ultrasonic Thickness Testing (UTT)
- 1.4) Review of maintenance records and Previous reports
- 1.5) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- **WET KIT STRUCTURE**, **SAP No- 12173667** was carried out and found satisfactory.
- 2.2) MPI was performed on accessible **Structure welds, Pad eyes and its associated welds**. The result was found satisfactory.
- 2.3) Ultrasonic Thickness Testing was carried out on **Accumulator**. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) WET KIT STRUCTURE

SAP No	12173667
ACCUMULATOR MFG	HYDAC
Location:	Coiled Tubing Unit - 07





















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3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- WET KIT STRUCTURE was carried out as follows:
- The Structure welds of the Unit were inspected and NO visible damages observed
- The visual Inspection of **Pad Eyes** was done and found satisfactory.
- The visual Inspection of **Accumulator & Hoses** was done and found satisfactory.
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

- Accessible Structure Welds
- Pad Eyes and its Associated welds

FINAL RESULT: PASS

3.3) ULTRASONIC THICKNESS TESTING (UTT):

Ultrasonic Thickness Testing was performed on the following components.:

15 GALLON ACCUMULATOR BOTTLES (BDY BP MAWP 3000 PSI A 200°F APP 22V15G)

FINAL RESULT: PASS

3.4) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **WET KIT STRUCTURE & UTT of ACCUMULATORS** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















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Photographs Of Activity

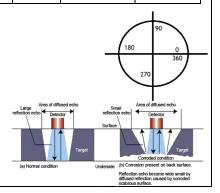






Ultrasonic T	hickness T	Serial No:	12D007015			
SECTION	0*	90*	180*	270*	OEM Min	Result
TOP NECK	0.618	0.578	0.597	0.606	0.500	ACCEPTED
MIDDLE	0.458	0.432	0.422	0.449	0.300	ACCEPTED
BOTTOM NECK	0.621	0.607	0.634	0.613	0.500	ACCEPTED

























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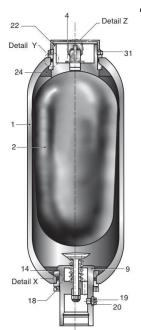




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l	Ultrasonic Thickness Test of Bottle	Serial No:		12D256012			
	SECTION		90*	180*	270*	OEM Min	Result
1	TOP NECK	0.607	0.593	0.611	0.616	0.500	ACCEPTED
		0.432	0.444	0.439	0.435		ACCEPTED
2	MIDDLE	0.434	0.452	0.427	0.441	0.300	ACCEPTED
		0.457	0.446	0.453	0.450		ACCEPTED
3	BOTTOM NECK	0.627	0.617	0.622	0.587	0.500	ACCEPTED

l	Ultrasonic Thickness Test of Bottle	Serial No:		18D362012			
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	TOP NECK	0.596	0.606	0.617	0.602	0.500	ACCEPTED
		0.422	0.453	0.446	0.443		ACCEPTED
2	MIDDLE	0.452	0.439	0.428	0.448	0.300	ACCEPTED
		0.442	0.444	0.453	0.433		ACCEPTED
3	BOTTOM NECK	0.609	0.612	0.592	0.579	0.500	ACCEPTED

	Ultrasonic Thickness Test of Bottle	Serial No:		18D362014			
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	TOP NECK	0.626	0.602	0.615	0.596	0.500	ACCEPTED
		0.445	0.426	0.434	0.451		ACCEPTED
2	MIDDLE	0.438	0.435	0.452	0.443	0.300	ACCEPTED
		0.440	0.458	0.462	0.437		ACCEPTED
3	BOTTOM NECK	0.607	0.589	0.604	0.596	0.500	ACCEPTED

ı	Ultrasonic Thickness Test of Bottle	Serial No:		18D362013			
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	TOP NECK	0.593	0.601	0.607	0.617	0.500	ACCEPTED
		0.428	0.417	0.448	0.432	0.300	ACCEPTED
2	MIDDLE	0.453	0.412	0.457	0.426		ACCEPTED
		0.432	0.442	0.443	0.431		ACCEPTED
3	BOTTOM NECK	0.612	0.582	0.594	0.500	ACCEPTED	
		All Meas	uremen	t in Inch	es		





















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•	Ultrasonic Thickness Test of Bottle	Serial No:		18D362011			
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	TOP NECK	0.611	0.591	0.628	0.615	0.500	ACCEPTED
		0.425	0.453	0.447	0.442		ACCEPTED
2	MIDDLE	0.429	0.434	0.427	0.421	0.300	ACCEPTED
		0.417	0.428	0.424	0.452		ACCEPTED
3	BOTTOM NECK	0.601	0.610	0.604	0.609	0.500	ACCEPTED

All Measurements in Inches

			Technical Details						
Equipment:	Poment: AC/DC Yoke Test Block		Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml					
Serial No:	1657	1657 Serial No: 2722003 Serial No: PY - 02							
Cal. Date:	14-OCT-	2024	Cal. Date:	16-OCT-2024	Cal. Date:	14-OCT-	-2024		Wet Magnetic Particle Testing (WMPT)
Equipment:	Thickn Gaug		Serial No:	5500391	Cal. Date:	14-OCT-	-2024	Method	
Equipment:	TEST BL	OCK	Serial No:	NoBo5087	Cal. Date:	15-OCT-2024			(VVIVIPI)
Black Magn Manufactur	I Magnatilix		Batch No:	220605	Expiry Date:	July-2025	MARTI'-LA		
White Contrast Pain Manufacture: WCP 2		N	/lagnaflux	Batch No:	220602	Expiry Date:	June-2025	WMPT Light Intensity	3650 Lux

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	Aizaz Farhat LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL	C ON TRO	Tor Ingineering	

REV: 01 Dated: 20 June 2022





















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CERTIFICATE OF THOROUGH EXAMINATION & NDT

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Client	HALLIBURTON	Report No:	QC-24-06/HALL-HPS-07/C13				
Item Description	AIR TANKS	Job No:	QC-24-06/HALL-HPS-07				
General Scope of Activity	Coiled Tubing Unit-7 AIR TANKS STRUCTURE, TANKS UTT	Date of Inspection	01-JUNE-2024				
Place of Inspection	HPS Yard	Valid Until:	30-NOVEMBER-2024				
Reference Standards:	ASTM E797 & ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)						

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 01-June-2024 in order to carry out the scope of services as described below.

1.0 Scope of Activity:

- 1.1) Visual Inspection of Coil Tubing Unit AIR TANKS STRUCTURE
- 1.2) Magnetic Particle Inspection (MPI).
- 1.3) Ultrasonic Thickness Testing (UTT)
- 1.4) Review of maintenance records and Previous reports
- 1.5) Issue of Report.

2.0 Summary of Inspection:

- 2.1) Thorough visual inspection of Coil Tubing Unit- AIR TANKS, was carried out and found satisfactory.
- 2.2) MPI was performed on accessible Structure welds. The result was found satisfactory.
- 2.3) Ultrasonic Thickness Testing was carried out on **LEFT SIDE**, **BOADY & RIGHT SIDE**. The result was found satisfactory.
- 2.4) The maintenance record of the vehicle was reviewed.

3.0 Identification of item(s) verified & Details of Inspection:

A) AIR TANKS

ID No	CTU-07-T-01, CTU-07-T-02 CTU-07-T-03, CTU-07-T-04, CTU-07-T-05,
Location:	Coiled Tubing Unit – CTU-07





















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3.1) Visual Inspection:

- The visual Inspection of the Coil Tubing Unit- AIR TANKS STRUCTURE was carried out as follows:
- The Structure welds of the Unit were inspected and NO visible damages observed
- No visual damages on **Painting** were observed on the external surfaces.

FINAL RESULT: PASS

3.2) Magnetic Particle Inspection (MPI):

Magnetic particle Inspection was performed on the following components.:

Accessible Structure Welds

FINAL RESULT: PASS

3.3) ULTRASONIC THICKNESS TESTING (UTT):

Ultrasonic Thickness Testing was performed on the following components.:

- Left Side plate
- Middle Body
- Right Side plate

FINAL RESULT: PASS

3.4) Review of maintenance Record:

The maintenance records and test reports accessories were reviewed and found satisfactory

FINAL RESULT: PASS

4.0 CONCLUSION:

The above Coil Tubing Unit- **AIR TANKS** was found to be in satisfactory condition after carrying out necessary inspection and tests subjected to proper maintenance according to manufacturer recommendation.





















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	Ultrasonic Thickness Test	of Air Ta	Serial No:		CTU-07-T-01		
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	LEFT SIDE NECK	0.123	0.118	0.121	0.132		ACCEPTED
2	MIDDLE	0.109	0.113	0.105	0.114		ACCEPTED
2	MIDDLE	0.115	0.112	0.102	0.117		ACCEPTED
3	RIGHT SIDE NECK	0.121	0.127	0.133	0.129		ACCEPTED



		Ultrasonic Thickness Test	of Air Ta	Serial No:		CTU-07-T-02		
		SECTION	0*	90*	180*	270*	OEM Min	Result
	1	LEFT SIDE NECK	0.125	0.133	0.127	0.118		ACCEPTED
	2	MIDDLE	0.108	0.112	0.107	0.115		ACCEPTED
		IVIIDDLE	0.113	0.101	0.123	0.117		ACCEPTED
	3	RIGHT SIDE NECK	0.132	0.128	0.138	0.126		ACCEPTED
į l			•					



	Ultrasonic Thickness Test	of Air Ta	Serial No:		CTU-07-T-03		
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	LEFT SIDE NECK	0.137	0.129	0.124	0.134		ACCEPTED
2	MIDDLE	0.113	0.106	0.115	0.103		ACCEPTED
2	IVIIDDLE	0.117	0.109	0.111	0.116		ACCEPTED
3	RIGHT SIDE NECK	0.128	0.122	0.134	0.112		ACCEPTED



	Ultrasonic Thickness Test	of Air Ta	Serial No:		CTU-07-T-04		
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	LEFT SIDE NECK	0.132	0.135	0.128	0.131		ACCEPTED
2	MIDDLE	0.109	0.111	0.113	0.105		ACCEPTED
2	IVIIDDLE	0.112	0.115	0.107	0.117		ACCEPTED
3	RIGHT SIDE NECK	0.134	0.136	0.128	0.127		ACCEPTED



Ultrasonic Thickness Test	Serial No:		CTU-07-T-05			
SECTION	0*	90*	180*	270*	OEM Min	Result
LEFT SIDE NECK	0.136	0.127	0.132	0.126		ACCEPTED
MIDDLE	0.112	0.107	0.119	0.110		ACCEPTED
MIDDLE	0.104	0.113	0.117	0.109		ACCEPTED
RIGHT SIDE NECK	0.137	0.131	0.130	0.129		ACCEPTED

All Measurement in Inches





















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CERTIFICATE OF THOROUGH EXAMINATION & NDT

This Certificate complies with the requirements of the ASTM & Lifting Equipment Operations and Lifting Equipment Regulations

Equipment Details									nical Details
Equipment:	AC/DC \ Test Bl		Equipment:	Digital Lux Meter	Equipment:	AC/DC PERMANE MAGN	T HAND	Magnetic Particle Concentration	1.2 to 2.4 ml/100 ml
Serial No:	1657	7	Serial No:	2722003	Serial No:	PY -	02		
Cal. Date:	14-OCT-	2024	Cal. Date:	16-OCT-2024	Cal. Date:	14-OCT	-2024		Wet Magnetic Particle
Equipment:	Thickn Gaug		Serial No:	5500391	Cal. Date:	14-OCT	-2024	Method	Testing (WMPT)
Equipment:	TEST BL	.OCK	Serial No:	NoBo5087	Cal. Date:	15-OCT-2024			(WIVIPT)
Black Magn	etic Ink		/Jagnaflux	Batch No:	220605	Expiry Date:	July-2025		
Manufactur	e: 7 HF	11	/lagilallux	Datell NO.	220003	Expiry Date.	July-2023	WMPT Light	
White Contra Manufacture		N	/lagnaflux	Batch No:	220602	Expiry Date:	June-2025	Intensity	3650 Lux

NAME: L N	Aizaz Farhat LEEA NDT LEVEL II Inspector	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION In	Inspector	C C C C C C C C C C C C C C C C C C C	
	Inspector	Supervisor	
SIGNATURE & SEAL	C PATROL	Tor Ingineering	

REV: 01 Dated: 20 June 2022



















