

AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com



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	Report No:	QC/24/HALL-0396-01
Date of Examination:	17.11.2024	Due Date:	16.05.2025	Job Number:	010725
Serial No:	Item Description				Final Remarks
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

Equipment	AC YOKE	Serial No:	201504048	Cal Due Date	11-Apr-2025
Equipment	Digital Lux Meter	Serial No:	2722003	Cal Due Date	13-Apr-2025
Equipment	AC-Yoke Test Block	Serial No:	1657	Cal Due Date	11-Apr-2025
White Contrast WCP-2	Magnaflux	Batch No:	220602	Expiry Date:	JULY.2025
Black Ink 7HF	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025
White Light Intensity:	3630 lux	Magnetic Partical Concentration 7HF		1.2 to 2.4 ml/100 ml	

ASNT Level II / LEAA Inspector Name:	Reviewed By: NDT LEVEL II	 	Client Signature & Stamp
ASHRAF ELSAID	MOHAMED ABDALLAH		

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





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Client Name:	HALLIBURTON	Location:	HPS YARD	Report No:	QC/24/HALL-0396-02
Date of Examination:	17.11.2024	Due Date:	16.05.2025	Job Number:	010725
Serial No:	Item Description				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

Equipment	AC YOKE	Serial No:	201504048	Cal Due Date	11-Apr-2025
Equipment	Digital Lux Meter	Serial No:	2722003	Cal Due Date	13-Apr-2025
Equipment	AC-Yoke Test Block	Serial No:	1657	Cal Due Date	11-Apr-2025
White Contrast WCP-2	Magnaflux	Batch No:	220602	Expiry Date:	JULY.2025
Black Ink 7HF	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025
White Light Intensity:	3630 lux	Magnetic Partical Concentration 7HF		1.2 to 2.4 ml/100 ml	

ASNT Level II / LEEA Inspector Name:	Reviewed By: NDT LEVEL II		Client Signature & Stamp
ASHRAF ELSAID	MOHAMED ABDALLAH	 	

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Client Name:	HALLIBURTON	Location:	HPS YARD	Report No:	QC/24/HALL-0396-03
Date of Examination:	17.11.2024	Due Date:	16.05.2025	Job Number:	010725
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

Equipment	AC YOKE	Serial No:	201504048	Cal Due Date	11-Apr-2025
Equipment	Digital Lux Meter	Serial No:	2722003	Cal Due Date	13-Apr-2025
Equipment	AC-Yoke Test Block	Serial No:	1657	Cal Due Date	11-Apr-2025
White Contrast WCP-2	Magnaflux	Batch No:	220602	Expiry Date:	JULY.2025
Black Ink 7HF	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025
White Light Intensity:	3630 lux	Magnetic Partical Concentration 7HF		1.2 to 2.4 ml/100 ml	

ASNT Level II / LEEA Inspector Name:	Reviewed By: NDT LEVEL II		Client Signature & Stamp
ASHRAF ELSAID	MOHAMED ABDALLAH	 	

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Client	HALLIBURTON	Report No:	QC/24/HALL-0396-04
Item Description	TRAILAR	Job No:	010725
General Scope of Activity	Coiled Tubing Unit-7 Trailar Structure	Date of Inspection	17.11.2024
Place of Inspection	HPS Yard	Valid Until:	16.05.2025

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 17-11-2024 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

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





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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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Photographs Of Activity



	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	ASHRAF ELSAID LEEA NDT LEVEL II	MOHAMED ABDALLAH LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL			

REV:01 DATED: 20 JUNE 2022

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





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Client	HALLIBURTON	Report No:	QC/24/HALL-0396-05
Item Description	TRUCK HEAD	Job No:	010725
General Scope of Activity	Coiled Tubing Unit-7 Truck Head Structure	Date of Inspection	17.11.2024
Place of Inspection	HPS Yard	Valid Until:	16.05.2025

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 17-11-2024 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- **12173665** 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:	12173665
REG No:	1895- BASRA
Location:	Coiled Tubing Unit - CTU 07

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





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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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	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	ASHRAF ELSAID LEEA NDT LEVEL II	MOHAMED ABDALLAH LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL			

REV:01 DATED: 20 JUNE 2022

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Client	HALLIBURTON	Report No:	QC/24/HALL-0106A-06
Item Description	CABIN	Job No:	010725
General Scope of Activity	Coiled Tubing Unit-7 Cabin Structure	Date of Inspection	17.11.2024
Place of Inspection	HPS Yard	Valid Until:	16.05.2025

This is to certify that the undersigned did at the request of Halliburton, Al Burjesia Base attend their facilities at HPS Department on 17-11-2024 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

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





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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 satisfactory

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.

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.



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Photographs Of Activity



	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	ASHRAF ELSAID LEEA NDT LEVEL II	MOHAMED ABDALLAH LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL			

REV:01 DATED: 20 JUNE 2022

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of inspection and considered Safe for Lifting.





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Client	HALLIBURTON	Report No:	QC/24/HALL-0396-07
Item Description	REEL	Job No:	010725
General Scope of Activity	Coiled Tubing Unit-7 Reel Structure	Date of Inspection	17.11.2024
Place of Inspection	HPS Yard	Valid Until:	16.05.2025
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 17-11-2024 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

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





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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.

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.



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PAD EYE DIMENSION

Serial No	PE-01,PE-02				
THICK.	HOLE	HEIGHT	WIDTH	SWL	
14 mm	17 mm	58 mm	114 mm	2 TON	

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PAD EYE DIMENSION				
Serial No:	PE-03, PE-04			SWL
THICK.	HOLE	HEIGHT	WIDTH	
51 mm	78 mm	162 mm	255mm	55 TON

PAD EYE DIMENSION				
Serial No:	RPE-01, RPE-02			SWL
THICK.	HOLE	HEIGHT	WIDTH	
51 mm	78 mm	162 mm	255mm	55 TON

NDT Equipment Details					
Equipment	AC YOKE	Serial No:	201504048	Cal Due Date	11-Apr-2025
Equipment	Digital Lux Meter	Serial No:	2722003	Cal Due Date	13-Apr-2025
Equipment	AC-Yoke Test Block	Serial No:	1657	Cal Due Date	11-Apr-2025
White Contrast WCP-2	Magnaflux	Batch No:	220602	Expiry Date:	JULY.2025
Black Ink 7HF	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025
White Light Intensity:	3630 lux	Magnetic Partical Concentration 7HF		1.2 to 2.4 ml/100 ml	

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	ASHRAF ELSAID LEEAA NDT	MOHAMED ABDALLAH LEEAA	
DESIGNATION	Inspector LEVEL II	NDT LEVEL II	
SIGNATURE & SEAL			

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Client	HALLIBURTON	Report No:	QC/24/HALL-0396-08
Item Description	HOSE REELS	Job No:	010725
General Scope of Activity	Coiled Tubing Unit-7 Hose Reels	Date of Inspection	17.11.2024
Place of Inspection	HPS Yard	Valid Until:	16.05.2025
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 17-11-2024 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

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





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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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Photographs Of Activity





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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

PAD EYE DIMENSION					PAD EYE DIMENSION				
Serial No:	PE-01			SWL	Serial No:	PE-01, PE02, PE03, PE04			SWL
THICK.	HOLE	HEIGHT	WIDTH		THICK.	HOLE	HEIGHT	WIDTH	
40 mm	32 mm	94 mm	168mm	8.5 TON	21 mm	20mm	120 mm	90 mm	3.25 TON
									

NDT Equipment Details					
Equipment	AC YOKE	Serial No:	201504048	Cal Due Date	11-Apr-2025
Equipment	Digital Lux Meter	Serial No:	2722003	Cal Due Date	13-Apr-2025
Equipment	AC-Yoke Test Block	Serial No:	1657	Cal Due Date	11-Apr-2025
White Contrast WCP-2	Magnaflux	Batch No:	220602	Expiry Date:	JULY.2025
Black Ink 7HF	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025
White Light Intensity:	3630 lux	Magnetic Partical Concentration 7HF		1.2 to 2.4 ml/100 ml	

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	ASHRAF ELSAID LEEAA NDT LEVEL II	MOHAMED ABDALLAH LEEAA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL			

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





CERTIFICATE OF THOROUGH EXAMINATION & NDT

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Client	HALLIBURTON	Report No:	QC/24/HALL-0396-09
Item Description	GOOSE NECK	Job No:	010725
General Scope of Activity	Coiled Tubing Unit-7 Goose Neck	Date of Inspection	17.11.2024
Place of Inspection	HPS Yard	Valid Until:	16.05.2025
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 17-11-2024 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

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





CERTIFICATE OF THOROUGH EXAMINATION & NDT

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- **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.

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.



AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

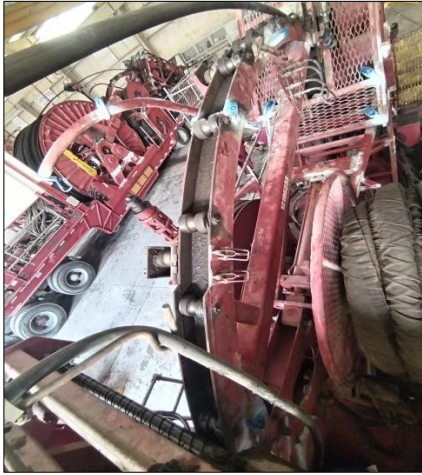
Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com



CERTIFICATE OF THOROUGH EXAMINATION & NDT

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

Photographs Of Activity





THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.







CERTIFICATE OF THOROUGH EXAMINATION & NDT

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PAD EYE DIMENSION					PAD EYE DIMENSION				
Serial No	C09, C10			SWL	Serial No:	C11,C12,C13,C14			
THICK.	HOLE	HEIGHT	WIDTH		THICK.	HOLE	HEIGHT	WIDTH	SWL
25mm	27mm	118mm	126mm	4.75 TON	19mm	22mm	43 mm	77 mm	1.5 TON
									

NDT Equipment Details					
Equipment	AC YOKE	Serial No:	201504048	Cal Due Date	11-Apr-2025
Equipment	Digital Lux Meter	Serial No:	2722003	Cal Due Date	13-Apr-2025
Equipment	AC-Yoke Test Block	Serial No:	1657	Cal Due Date	11-Apr-2025
White Contrast WCP-2	Magnaflux	Batch No:	220602	Expiry Date:	JULY.2025
Black Ink 7HF	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025
White Light Intensity:	3630 lux	Magnetic Partical Concentration 7HF		1.2 to 2.4 ml/100 ml	

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	ASHRAF ELSAID LEEA NDT	MOHAMED ABDALLAH LEEA	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL			

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





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-0396-10
Item Description	Injector Head	Job No:	010725
General Scope of Activity	Coil Tubing Unit-7 Injector Head	Date of Inspection	17.11.2024
Place of Inspection	HPS Yard	Valid Until:	16.05.2025
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 17-11-2024 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

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





CERTIFICATE OF THOROUGH EXAMINATION & NDT

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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.

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





CERTIFICATE OF THOROUGH EXAMINATION & NDT

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

Photographs Of Activity



PAD EYE DIMENSION

Serial No: C 13 , C14

THICK.	HOLE	HEIGHT	WIDTH	SWL
14 mm	17 mm	58 mm	114 mm	2 TON



THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





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PAD EYE DIMENSION				
Serial No:	CT05, CT06, CT07, CT08			
THICK.	HOLE	HEIGHT	WIDTH	SWL
24 mm	26 mm	65 mm	75 mm	17 TON

PAD EYE DIMENSION				
Serial No:	CT09, CT10, CT11, CT12			
THICK.	HOLE	HEIGHT	WIDTH	SWL
24 mm	26 mm	65 mm	75 mm	17 TON



NDT Equipment Details

Equipment	AC YOKE	Serial No:	201504048	Cal Due Date	11-Apr-2025
Equipment	Digital Lux Meter	Serial No:	2722003	Cal Due Date	13-Apr-2025
Equipment	AC-Yoke Test Block	Serial No:	1657	Cal Due Date	11-Apr-2025
White Contrast WCP-2	Magnaflux	Batch No:	220602	Expiry Date:	JULY.2025
Black Ink 7HF	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025
White Light Intensity:	3630 lux	Magnetic Partical Concentration 7HF		1.2 to 2.4 ml/100 ml	

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	ASHRAF ELSAID LEEAA NDT	MOHAMED ABDALLAH LEEAA	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL			

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.







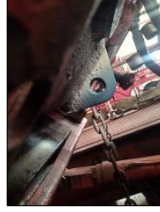







CERTIFICATE OF THOROUGH EXAMINATION & NDT

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PAD EYE DIMENSION					PAD EYE DIMENSION					
Serial No:	36471A, 36471B, 36471C, 36471D				Serial No:	36471-1, 36471-2			SWL	
THICK.	HOLE	HEIGHT	WIDTH	SWL	THICK.	HOLE	HEIGHT	WIDTH	SWL	
25 mm	31 mm	65 mm	80 mm	6.5 TON	22 mm	20 mm	65 mm	110 mm	3.25 TON	

NDT Equipment Details					
Equipment	AC YOKE	Serial No:	201504048	Cal Due Date	11-Apr-2025
Equipment	Digital Lux Meter	Serial No:	2722003	Cal Due Date	13-Apr-2025
Equipment	AC-Yoke Test Block	Serial No:	1657	Cal Due Date	11-Apr-2025
White Contrast WCP-2	Magnaflux	Batch No:	220602	Expiry Date:	JULY.2025
Black Ink 7HF	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025
White Light Intensity:	3630 lux	Magnetic Partical Concentration 7HF		1.2 to 2.4 ml/100 ml	

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	ASHRAF ELSAID LEEAA NDT	MOHAMED ABDALLAH LEEAA	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL			

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





CERTIFICATE OF THOROUGH EXAMINATION & NDT

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Client	HALLIBURTON	Report No:	QC-24-06/HALL-HPS-07/C11
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-MAY -2025
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 – **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

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





CERTIFICATE OF THOROUGH EXAMINATION & NDT

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- **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.

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.

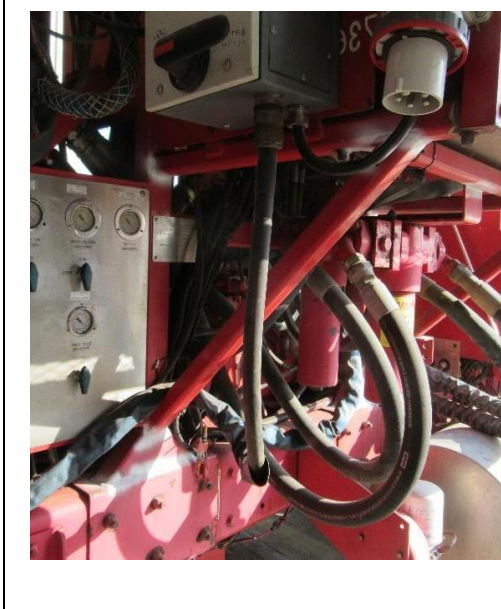
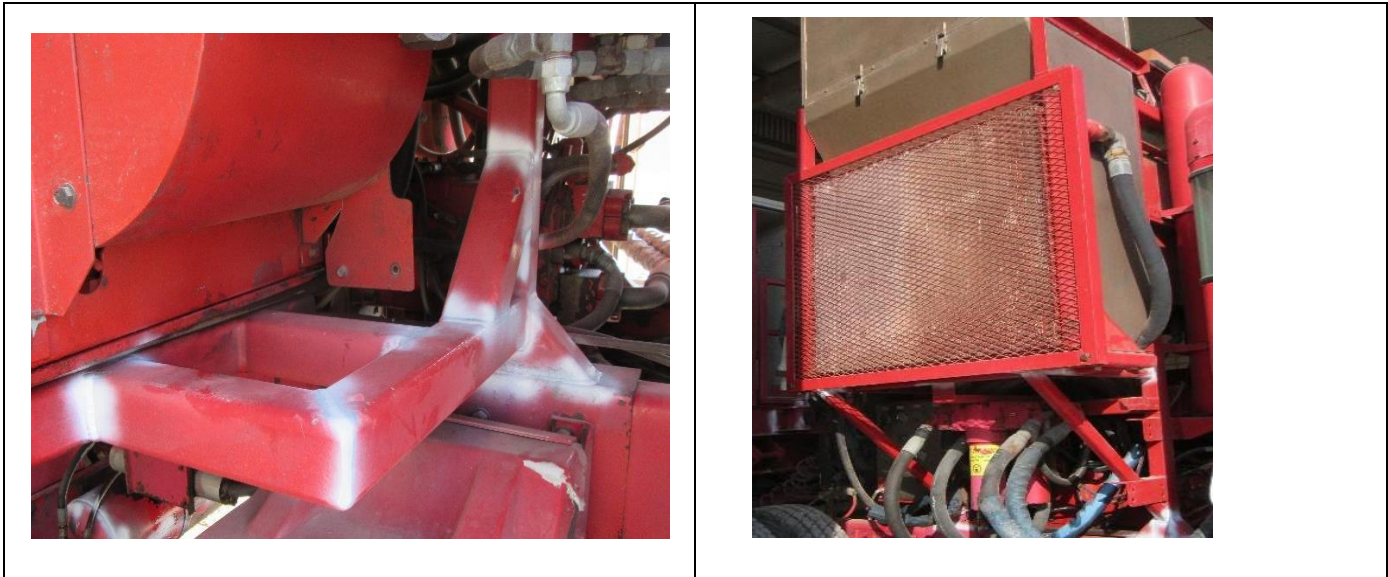




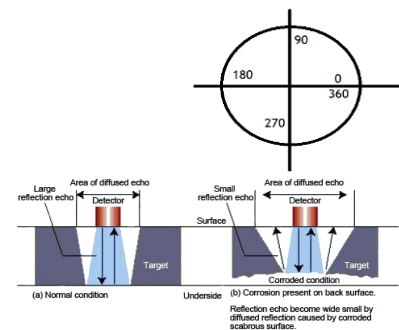
CERTIFICATE OF THOROUGH EXAMINATION & NDT

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

Photographs Of Activity



Ultrasonic Thickness Test of Accumulator Bottle					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



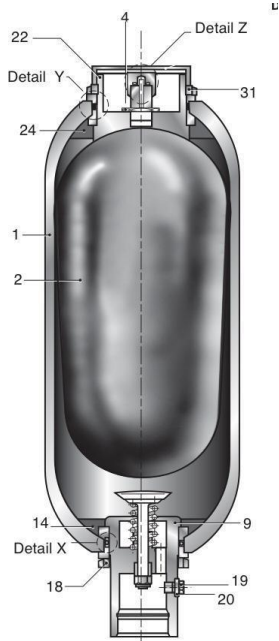
THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





CERTIFICATE OF THOROUGH EXAMINATION & NDT

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Ultrasonic Thickness Test of Accumulator Bottle				Serial No:		12D256012	
	SECTION	0*	90*	180*	270*	OEM Min	Result
1	TOP NECK	0.607	0.593	0.611	0.616	0.500	ACCEPTED
2	MIDDLE	0.432	0.444	0.439	0.435	0.300	ACCEPTED
		0.434	0.452	0.427	0.441		ACCEPTED
		0.457	0.446	0.453	0.450		ACCEPTED
3	BOTTOM NECK	0.627	0.617	0.622	0.587	0.500	ACCEPTED

Ultrasonic Thickness Test of Accumulator 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
2	MIDDLE	0.422	0.453	0.446	0.443	0.300	ACCEPTED
		0.452	0.439	0.428	0.448		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 Accumulator 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
2	MIDDLE	0.445	0.426	0.434	0.451	0.300	ACCEPTED
		0.438	0.435	0.452	0.443		ACCEPTED
		0.440	0.458	0.462	0.437		ACCEPTED
3	BOTTOM NECK	0.607	0.589	0.604	0.596	0.500	ACCEPTED

Ultrasonic Thickness Test of Accumulator 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
2	MIDDLE	0.428	0.417	0.448	0.432	0.300	ACCEPTED
		0.453	0.412	0.457	0.426		ACCEPTED
		0.432	0.442	0.443	0.431		ACCEPTED
3	BOTTOM NECK	0.622	0.612	0.582	0.594	0.500	ACCEPTED

All Measurement in Inches

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.







CERTIFICATE OF THOROUGH EXAMINATION & NDT

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

Ultrasonic Thickness Test of Accumulator 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
2	MIDDLE	0.425	0.453	0.447	0.442	0.300	ACCEPTED
		0.429	0.434	0.427	0.421		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

NDT Equipment Details					
Equipment	AC YOKE	Serial No:	201504048	Cal Due Date	14-Oct-2024
Equipment	Digital Lux Meter	Serial No:	2722003	Cal Due Date	16-Oct-204
Equipment	AC-Yoke Test Block	Serial No:	1657	Cal Due Date	14-Oct-2024
Equipment	UT Thickness Gauge	Serial No:	5500391	Cal Due Date	14-Oct-2024
Equipment	UT TEST BLOCK	Serial No:	NOBO5087	Cal Due Date	15-Oct-2024
White Contrast WCP-2	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025
Black Ink 7HF	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025
White Light Intensity:	3630 lux	Magnetic Partical Concentration 7HF		1.2 to 2.4 ml/100 ml	

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	ASHRAF ELSAID LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL			

THIS IS TO CERTIFY THAT; a competent person did attend the above-mentioned owner's work location on the date shown above and the equipment described in this report was tested & inspected as per the requirements of ASTM & Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.





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-24-06/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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CERTIFICATE OF THOROUGH EXAMINATION & NDT

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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 Tank				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	0.095	ACCEPTED
2	MIDDLE	0.109	0.113	0.105	0.114	0.095	ACCEPTED
		0.115	0.112	0.102	0.117		ACCEPTED
3	RIGHT SIDE NECK	0.121	0.127	0.133	0.129	0.095	ACCEPTED



Ultrasonic Thickness Test of Air Tank				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	0.095	ACCEPTED
2	MIDDLE	0.108	0.112	0.107	0.115	0.095	ACCEPTED
		0.113	0.101	0.123	0.117		ACCEPTED
3	RIGHT SIDE NECK	0.132	0.128	0.138	0.126	0.095	ACCEPTED



Ultrasonic Thickness Test of Air Tank				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	0.095	ACCEPTED
2	MIDDLE	0.113	0.106	0.115	0.103	0.095	ACCEPTED
		0.117	0.109	0.111	0.116		ACCEPTED
3	RIGHT SIDE NECK	0.128	0.122	0.134	0.112	0.095	ACCEPTED



Ultrasonic Thickness Test of Air Tank				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	0.095	ACCEPTED
2	MIDDLE	0.109	0.111	0.113	0.105	0.095	ACCEPTED
		0.112	0.115	0.107	0.117		ACCEPTED
3	RIGHT SIDE NECK	0.134	0.136	0.128	0.127	0.095	ACCEPTED



Ultrasonic Thickness Test of Air Tank				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	0.095	ACCEPTED
	MIDDLE	0.112	0.107	0.119	0.110	0.095	ACCEPTED
		0.104	0.113	0.117	0.109		ACCEPTED
	RIGHT SIDE NECK	0.137	0.131	0.130	0.129	0.095	ACCEPTED

Measurement in Inches

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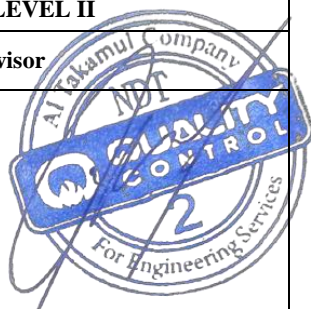
Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com



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NDT Equipment Details					
Equipment	AC YOKE	Serial No:	201504048	Cal Due Date	11-Apr-2025
Equipment	Digital Lux Meter	Serial No:	2722003	Cal Due Date	13-Apr-2025
Equipment	AC-Yoke Test Block	Serial No:	1657	Cal Due Date	11-Apr-2025
Equipment	UT Thickness Gauge	Serial No:	5500391	Cal Due Date	11-Apr-2025
Equipment	UT TEST BLOCK	Serial No:	NOBO5087	Cal Due Date	15-Oct-2024
White Contrast WCP-2	Magnaflux	Batch No:	220602	Expiry Date:	JULY.2025
Black Ink 7HF	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025
White Light Intensity:	3630 lux	Magnetic Partical Concentration 7HF		1.2 to 2.4 ml/100 ml	

	INSPECTED & PREPARED BY	REVIEWED & APPROVED BY	CLIENT SIGNATURE & STAMP
NAME:	ASHRAF ELSAID LEEA NDT LEVEL II	Ashraf Elsaid LEEA NDT LEVEL II	
DESIGNATION	Inspector	Supervisor	
SIGNATURE & SEAL			

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