

**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**

Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

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CERTIFICATE OF THOROUGH EXAMINATION

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

| | | | | | | |
|---|--|---|------------------------------|---|--------------------|----|
| Date of Examination: | 05.02.2024 | Date of Report: | 05.02.2024 | Certificate No: | QC-2024-07821-01 | |
| Client Name: | HALLIBURTON SPERRY | Location: | RIG ZPEC 23 | Job Number: | QC-2024-07821 | |
| Last Inspection | | Last Proof Load Test Date | | Next Proof Load Test Due | | |
| 02.08.2023 | | 06.2014 | | AFTER REPAIR OR RECTIFICATION | | |
| Serial Number: | QTY | Description | | | | |
| SN:12325068 SDL-374 | 1 | <p align="center"><u>MUD LOGGING UNIT</u></p> <p>DIMEMTION: 7.90M (L) X 2.75 M (W) X 2.70 M (H)</p> <p>FULLY WELDED STEEL CONSTRUCTION WITH FOUR TOP MOUNTED LIFTING POINTS</p> <p>TARE WEIGHT: 11800 KG</p> <p>MAX. GROSS WEIGHT: 13000 KG</p> | | | | |
| Reference Standard: | DNV 2.7-1/HAL DOC: WM-GL-HAL-HSE-0420F & WM-GL-HAL-HSE-0420C REV 1 | | | | | |
| Pad Eyes Dimension: | Thickness: | Pin Hole: | Length: | Height: | PADEYE SWL: | |
| | 38 MM | 30 MM | 130 MM | 115 MM | 6 T | |
| Is this the first examination after Installation or assembly at a new site or location? | YES | NO | ✓ | Was the examination carried out: Within an interval of 6 months? | | |
| | YES | NO | ✓ | YES | NO | |
| If the answer to the above question is YES has the equipment been installed correctly? | YES | NO | ✓ | With an interval of 12 months? | | |
| | YES | NO | ✓ | YES | NO | |
| Identification of any part found to have a defect which is or could not become a danger to persons and a description of the defect: (If none State NONE) NONE | YES | NO | ✓ | In accordance with an examination scheme? | | |
| | YES | NO | ✓ | After the occurrence of exceptional circumstances? | | |
| Is the above a defect which is of immediate danger to persons: | YES | NO | ✓ | | | |
| Is the above a defect which is not yet but could become a danger to persons (If YES state the date by when) | N/A | | | | | |
| Particulars of any repair, renewal or alteration required to remedy the defect identified above: | | | | | | |
| Particulars of any tests carried out as part of the examination: (If none state NONE) | | | | | | |
| ** The subject Items were inspected Visually and dimensionally where no signs of defects were observed at the time of inspection and found satisfactory | | | | | | |
| ** MPI was carried out on the pad eyes Welding Areas and found satisfactory | | | | | | |
| IS THIS EQUIPMENT SAFE TO OPERATE? | | | | | YES | NO |
| Name of Inspector: | Name of person authenticating this report: | | Signature & Stamp | | | |
| AIZAZ KHAN | ASHRAF ELSAID | | | | | |
| Date of Next Through Examination: | 04.08.2024 | | | | | |

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 Lifting Operations Lifting Equipment Regulation "LOLER". The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.




| CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION | | | | |
|--|---|--|---|--|
| Client: | HALLIBURTON SPERRY | | Report No: | QC-2023-0780-02 |
| Location: | RIG ZPEC 23 | | Job Number: | QC-2023-0780 |
| Date: | 5-Feb-2024 | | Next Inspection Date: | 04-08-2024 |
| Type Of Inspection: | THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION | | Specification: | ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) |
| | | | UNIT DESCRIPTION: | MUD LOGGING UNIT PADEYES |
| | | | UNIT S/N: | SDL-374 S.NO: 12325068 |
| | | | UNIT S/N: | L:7.90 M X W:2.75 M X H:2.70 M |
| | | | INSPECTION RESULT : | |
| VISUAL , THOROUGH EXAMINATION | | | VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION | |
| MAGNETIC PARTICLE INSPECTION | | | Available critical areas Inspected and found free from cracks and other defects | |
| FINAL RESULTS | | | THE ABOVE INSPECTED AREAS WAS ACCEPTED | |
| COMMENT | | | | |
| Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast | | | | |

| EQUIPMENT DETAILS | | | | | | PERSON DETAILS | | REVIEW BY | |
|-----------------------------------|-----------------------|--------------------|-------------------------------|----------------------|---------------------------|--------------------|--------------|-------------------|---------------|
| Equipment: | AC/DC Yoke Test Block | Equipment: | Digital Lux Meter WHITE LIGHT | Equipment: | AC/DC Yoke PERMANENT HAND | INSPECTOR NAME: | AIZAZ FARHAT | SENIOR INSPECTOR: | ASHRAF ELSAID |
| S.No: | 1657 | S.No: | 1932401 2722003 | S.No: | PY - 019 PY - 02 | QUALIFICATION: | | SUPERVISOR: | HANI ALI |
| Cal Due Date: | 14-Feb-2024 | Cal Due Date: | 16-Feb-2024 | Cal Due Date: | 14-Feb-2024 | LEE, ASNT LEVEL II | | CLIENT: | |
| Black Magnetic Ink Manufacture: | ZHF | Magnaflux | Batch No: 2E+05 | EXPIRE DATE: | JULY,2025 | STAMP & SIGNATURE: | | | |
| White Contrast Paint Manufacture: | | Magnaflux | Batch No: 2E+05 | EXPIRE DATE: | JUN,2025 | | | | |
| TECHNICAL DETAILS | | | TECH | | WMP1 Light Intensity | | | | |
| | | | RESCENT Particle Concentr: | | 0.1 to 0.4 ml/100 ml | | | | |
| | | | Magnetic Ink Concentration: | | 1.2 to 2.4 ml/100 ml | | | | |
| Original - Client Files | | Copy - Area Office | | QC/FN/MPI/065 Rev.00 | | DATED 07 NOV 2021 | | | |

CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

| | | | |
|---|---|--------------------------------|---|
| Client: | HALLIBURTON SPERRY | Report No: | QC-2023-0780-03 |
| Location: | RIG ZPEC 23 | Job Number: | QC-2023-0780 |
| Date: | 5-Feb-2024 | Next Inspection Date: | 04-08-2024 |
| Type Of Inspection: | VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION | Specification: | ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) |
|   | UNIT DESCRIPTION: | MUD LOGGING UNIT LADDER | |
| | UNIT S/N: | SDL-374 S.NO: 12325068 | |
| | UNIT S/N: | L:7.90 M X W:2.75 M X H:2.70 M | |
| INSPECTION RESULT : | | | |
| VISUAL , THOROUGH EXAMINATION | VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION | | |
| MAGNETIC PARTICLE INSPECTION | Available critical areas Inspected and found free from cracks and other defects | | |
| FINAL RESULTS | THE ABOVE INSPECTED AREAS WAS ACCEPTED | | |
| COMMENT: | | |  |
| Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast | | | |

| EQUIPMENT DETAILS | | | | | | PERSON DETAILS | | REVIEW BY | |
|---|--|----------------------|-------------------------------|----------------------|-----------------------------------|---------------------------------|---|--------------------------|---------------|
| Equipment: | AC/DC Yoke Test Block | Equipment: | Digital Lux Meter WHITE LIGHT | Equipment: | AC/DC Yoke PERMANET HAND MAGNATIC | INSPECTOR NAME: | AIZAZ FARHAT | SENIOR INSPECTOR: | ASHRAF ELSAID |
| S.No: | 1657 | S.No: | 1932401 2722003 | S.No: | PY - 019 PY - 02 | QUALIFICATION: |  | SUPERVISOR: | HANI ALI |
| Cal Due Date: | 14-Feb-2024 | Cal Due Date: | 16-Feb-2024 | Cal Due Date: | 14-Feb-2024 | LEE, ASNT LEVEL II MT & PT & VT | | CLIENT: | |
| Black Magnetic Ink Manufacture: | 7HF | Magnaflux | Batch No: 220605 | EXPIRE DATE: | JULY,2025 | STAMP & SIGNATURE: | | | |
| Whie Contrast Paint Manufacture: | | Magnaflux | Batch No: 220602 | EXPIRE DATE: | JUN,2025 | | | | |
| TECHNICAL DETAILS | TECH | | | | WMPT Light Intensity | | | | |
| | Wet FLUORESCENT Particle Concentration 14 HF | | 0.1 to 0.4 ml/100 ml | | 1450 Lux | | | | |
| | Black Magnetic Ink Concentration 7 HF | | 1.2 to 2.4 ml/100 ml | | | | | | |
| Original - Client Files | | Copy - Area Office | | QC/FN/MPI/065 Rev.00 | | DATED 07 NOV 2021 | | | |

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|-----------------------------|--------------------|------------------------|-------------|------------------------|------------------|
| Date of Examination: | 05.02.2024 | Date of Report: | 05.02.2024 | Certificate No: | QC-2024-07821-04 |
| Client Name: | HALLIBURTON SPERRY | Location: | RIG ZPEC 23 | Job Number: | QC-2024-07821 |

| Serial Number: | QTY | Description | SWL | Date of manufacture if known: | Date of last thorough examination |
|----------------|-----|--|-----------------------|-------------------------------|-----------------------------------|
| CE606 | 01 | <p><u>4 LEGS WIRE ROPE SLING</u></p> <p>Manufacture: Safety Marine S.F: 5:1 Dim: 28 MM DIA x 6.2 M (L) IWRC, MECHANICALLY SPLICED WITH STEEL FERRULE C/W MASTER LINK ASSEMBLY HARD EYE BOTH ENDS</p> <p>Location: Attached with Mud logging Unit NO: 12325068</p> | 13 TON at 0-45° Angle | N/A | 02.08.2023 |

Reference Standard: BS EN 13414-1/ HAL DOC: WM-GL-HAL-HSE-0420F & WM-GL-HAL-HSE-0420C REV 1

| | | | | | | | | |
|---|-----|----|---|---|--------------------------------|-----|----|----|
| Is this the first examination after Installation or assembly at a new site or location? | YES | NO | ✓ | Was the examination carried out: Within an interval of 6 months? | YES | ✓ | NO | |
| | | | | | With an interval of 12 months? | YES | | NO |
| If the answer to the above question is YES has the equipment been installed correctly? | YES | NO | | In accordance with an examination scheme? After the occurrence of exceptional circumstances? | YES | ✓ | NO | |
| | | | | | YES | | NO | ✓ |

Identification of any part found to have a defect which is or could not become a danger to persons and a description of the defect: (If none state NONE) NONE

Is the above a defect which is of immediate danger to persons: YES NO

Is the above a defect which is not yet but could become a danger to persons (If YES state the date by when) N/A

Particulars of any repair, renewal or alteration required to remedy the defect identified above:

Particulars of any tests carried out as part of the examination: (If none state NONE)

The subject Items were inspected Visually and dimensionally where no signs of defects were observed at the time of inspection and found satisfactory

IS THIS EQUIPMENT SAFE TO OPERATE? YES NO

| | | | |
|--|---|------------------------------|--|
| Name of Inspector: | Name of person authenticating this report: | Signature & Stamp | |
| AIZAZ KHAN | ASHRAF ELSAID | | |
| Date of Next Through Examination: | 04.08.2024 | | |

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 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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|-----------------------------|--------------------|------------------------|-------------|------------------------|------------------|
| Date of Examination: | 05.02.2024 | Date of Report: | 05.02.2024 | Certificate No: | QC-2024-07821-05 |
| Client Name: | HALLIBURTON SPERRY | Location: | RIG ZPEC 23 | Job Number: | QC-2024-07821 |

| Serial Number: | QTY | Description | SWL | Date of manufacture if known: | Date of last thorough examination |
|----------------------------------|-----|---|---------|-------------------------------|-----------------------------------|
| CE620 CE621 CE622 CE623 | 04 | SAFETY PIN BOW SHACKLE SIZE: 1" GRADE: 6 MANUFACTURE: CROSBY S.F: 6:1 Location: Attached With Mud Logging Unit No : 12325068 | 8.5 TON | N/A | 02.08.2023 |

| | |
|----------------------------|--|
| Reference Standard: | BS EN 13889/ HAL DOC: WM-GL-HAL-HSE-0420F & WM-GL-HAL-HSE-0420C REV 1 |
|----------------------------|--|

| | | | | | | | | |
|---|-----|----|---|---|--------------------------------|-----|----|----|
| Is this the first examination after Installation or assembly at a new site or location? | YES | NO | ✓ | Was the examination carried out: Within an interval of 6 months? | YES | ✓ | NO | |
| | | | | | With an interval of 12 months? | YES | | NO |
| If the answer to the above question is YES has the equipment been installed correctly? | YES | NO | | In accordance with an examination scheme? After the occurrence of exceptional circumstances? | YES | ✓ | NO | |
| | | | | | YES | | NO | ✓ |

Identification of any part found to have a defect which is or could not become a danger to persons and a description of the defect: (If none state NONE) **NONE**

Is the above a defect which is of immediate danger to persons: YES NO

Is the above a defect which is not yet but could become a danger to persons (If YES state the date by when) N/A

Particulars of any repair, renewal or alteration required to remedy the defect identified above:

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IS THIS EQUIPMENT SAFE TO OPERATE? YES NO

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|--|---|-------------------------------|--|
| Name of Inspector: | Name of person authenticating this report: | Signature & Stamp: | |
| AIZAZ KHAN | ASHRAF ELSAID | | |
| Date of Next Through Examination: | 04.08.2024 | | |

REV: 01 Dated: 20 June 2022
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