




**AI TAKAMUL COMPANY FOR ENGINEERING TESTS  
AND PROFESSIONAL SAFETY LIMITED**  
Basra, North Rumaila, Quality Control Yard - Iraq



**CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION**

|   |  |   |  |
|---|--|---|--|
| <b>Client:</b>  | HALLIBURTON (HPS)  | <b>Report No:</b>   | QC-24-10-HPS-NDT-034A  |
| <b>Location:</b>  | WQ1-562  | <b>JOB NO:</b>  | 181024   |
| <b>Inspection Date:</b>   | Tuesday, October 22, 2024                                    | <b>Next Inspection Date:</b>  | Monday, April 21, 2025   |
| <b>Type Of Inspection:</b>  | VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION | <b>Specification:</b>   | ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)                               |
|  |  | <b>UNIT DESCRIPTION:</b>  | FRAC TANK LIFTING LUGS   |
|   |  | <b>UNIT S/N:</b>  | 13253284   |
|   |  | <b>UNIT DIM:</b>  | 14.20 M (L) X 2.90 M (W) X 4.40 M (H)  |
|   |  | <b>INSPECTION RESULT :</b>  |  |
| <b>VISUAL , THOROUGH EXAMINATION</b>  |  | unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage |  |
| <b>MAGNETIC PARTICLE INSPECTION</b>   |  | Welds & forgn areas inspected and found free from cracks and other defects              |  |
| <b>FINAL RESULTS</b>  |  | THE ABOVE INSPECTED AREAS WAS ACCEPTED  |  |
| <b>COMMENT:</b>   |  |   |  |
| Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast          |  |   |  |

| EQUIPMENT DETAILS                       |  |                      |                                      |                      |                             | PERSON DETAILS                          |   | REVIEW BY  |                    |
|---|--|----------------------|--------------------------------------|----------------------|-----------------------------|---|---|--|--------------------|
| <b>Equipment:</b>                       | AC-Yoke Test Block                     | <b>Equipment:</b>    | Digital Lux Meter                    | <b>Equipment:</b>    | AC/DC Yoke                  | <b>INSPECTOR NAME:</b><br>ASHRAF ELSAID |  | <b>SENIOR INSPECTOR:</b>                               | MOHAMED ABDALLAH   |
| <b>S.No:</b>                            | 1657                                   | <b>S.No:</b>         | 2722003                              | <b>S.No:</b>         | 201504052                   |   |   | <b>QUALIFICATION:</b><br>ASNT LEVEL II<br>MT & PT & VT | <b>SUPERVISOR:</b> |
| <b>Cal Due Date:</b>                    | 11-Apr-25                              | <b>Cal Due Date:</b> | 13-Apr-25                            | <b>Cal Due Date:</b> | 11-Apr-25                   | <b>STAMP &amp; SIGNATURE:</b>           |   | <b>CLIENT:</b>   |                    |
| <b>Black Magnetic Ink Manufacture:</b>  | Magnaflux                              | <b>Batch No:</b>     | 220605                               | <b>Expiry Date:</b>  | JULY.2025                   |   |   |  |                    |
| <b>Whie Contrast Paint Manufacture:</b> | Magnaflux                              | <b>Batch No:</b>     | 220602                               | <b>Expiry Date:</b>  | JUN,2025                    |   |   |  |                    |
| <b>Technical Details:</b>               | <b>Magnetic Partical Concentration</b> |                      | <b>Method</b>                        |                      | <b>WMPT Light Intensity</b> |   |   |  |                    |
|   | 1.2 to 2.4 ml/100 ml                   |                      | Wet Magnetic Particle Testing (WMPT) |                      | 3670 Lux                    |   |   |  |                    |

Original - Client Files      Copy - Area Office      QC/FN/MPI/065      Rev.00      DATED 07 NOV 2021



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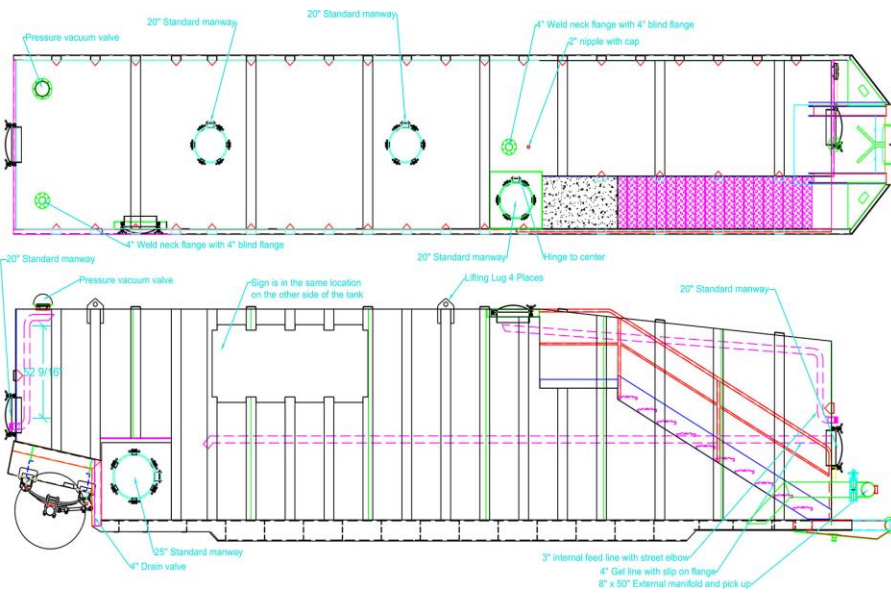


## CERTIFICATE OF QUALIFICATION VISUAL INSPECTION AND LEAK TESTING

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

|                     |   |                      |                               |
|---------------------|---|----------------------|-------------------------------|
| CLIENT:             | <b>HALLIBURTON (HPS)</b>                    | REPORT No.:          | QC-24-10-HPS-VT & LEAK -34B   |
| LOCATION:           | WQ1-562                                     | STANDARD:            | CUSOMER SPECIFICATION         |
| INSPECTION DATE:    | Tuesday, October 22, 2024                   | NEXT INSPECTION DATE | <b>Monday, April 21, 2025</b> |
| TYPE OF INSPECTION: | <b>*VISUAL INSPECTION AND *LEAK TESTING</b> |                      |                               |
| DESCRIPTION:        | <b>FRAC TANK</b>                            | SAP NO:              | <b>13253284</b>               |
| MEDIUM USED:        | <b>WATER</b>                                | HOLDING TIME:        | <b>15 MINUTES</b>             |

### PICTURES



### INSPECTION RESULT

|                        |   |
|------------------------|---|
| <b>VISUAL TESTING:</b> | Visual Testing of Frac Tank did not found Deforms Mechanical Damage, Cracks and Corrosion. At time of Inspection. |
| <b>LEAK TESTING:</b>   | Leak Testing of Frac Tank did not found any leakage during the holding time. At time of Inspection.               |

### Inspection Evaluation

**VISUAL TESTING-**The above mentioned Frac Tank was found "Satisfactory" Fit for intended used.

**LEAK TESTING-** The above mentioned Frac Tank was found "Satisfactory" Fit for intended used.

| PERSONNEL DETAILS                        |  | REVIEW BY         |                  |
|--|--|-------------------|------------------|
| INSPECTOR NAME:<br>ASHRAF ELSAID         |  | SENIOR INSPECTOR: | MOHAMED ABDALLAH |
| QUALIFICATION:<br>ASNT LEVEL II MT,PT,VT |  | SUPERVISOR:       | HANI ALI         |
| STAMP & SIGNATURE:                       |  | CUSTOMER NAME     |                  |

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