

**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 (TSS)  | <b>Report No:</b>            | QC-AUG-24-TSS-NDT-006        |  |
| <b>Location:</b>           | TSS WORKSHOP & INSPECTION TEST AREA                          | <b>Job Number:</b>           | QC-AUG-24-TSS-NDT-001        |  |
| <b>Date:</b>               | Tuesday, August 27, 2024                                     | <b>Next Inspection Date:</b> | Wednesday, February 26, 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>  | <b>TEST PLUG: 3" 1502 THRAD</b>   |
| <b>S/NO:</b>  | <b>WO17331-3</b>  |
| <b>INSPECTION RESULT :</b>  |   |
| <b>VISUAL , THOROUGH EXAMINATION</b>  | VISUAL & MAGNETIC PARTICLE INSPECTION ( M.P.I. ) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION |
| <b>MAGNETIC PARTICLE INSPECTION</b>   | Thread & Critical Available areas inspected and found free from cracks and other defects                        |
| <b>FINAL RESULTS</b>  | THE ABOVE INSPECTED AREAS WAS ACCEPTED  |
| <b>COMMENT:</b><br>(MPI Wet Fluorescent inspection Thread With UltraViolet Light) |   |



| EQUIPMENT DETAILS                               |   |                      |                  |                            |  | PERSON DETAILS   |                | REVIEW BY                |                |
|---|---|----------------------|------------------|----------------------------|--|--|----------------|--------------------------|----------------|
| <b>EQUIPMENT :</b>                              | AC/DC HAND Yoke                                     | <b>EQUIPMENT :</b>   | Shooting Coil DC | <b>EQUIPMENT :</b>         | UV BLACK LIGHT:<br>3041 μw/cm <sup>2</sup> | <b>INSPECTOR NAME:</b>                                 | USMAN SHABIBIR | <b>SENIOR INSPECTOR:</b> | NAVEED HUSSAIN |
| <b>S.NO:</b>                                    | 201504048   | <b>S.NO:</b>         | 22650            | <b>S.NO:</b>               | 1898977                                    | <b>QUALIFICATION:</b><br>ASNT LEVEL II<br>MT & PT & VT |                | <b>SUPERVISOR:</b>       | HANI ALI       |
| <b>Cal Due Date:</b>                            | 14.OCT.2024   | <b>Cal Due Date:</b> | 15.OCT.2024      | <b>Cal Due Date:</b>       | 14.OCT.2024                                |  |                | <b>CLIENT:</b>           |                |
| <b>FLUORESCENT 14HF</b>                         | Magnaflux   | <b>Batch No:</b>     | 220306           | <b>EXPIRE DATE:</b>        | MARCH,2025                                 |  |                |                          |                |
| <b>Whie Contrast Paint Manufacture:</b>         | Magnaflux   | <b>Batch No:</b>     | 220602           | <b>EXPIRE DATE:</b>        | JUN,2025                                   | <b>STAMP &amp; SIGNATURE:</b>                          |                |                          |                |
| <b>Digital Lux Meter WHITE LIGHT INTENSITY:</b> | <b>TECHNICAL DETAILS</b>                            |                      |                  |                            | <b>Black Magnetic Ink Manufacture:7HF</b>  |  |                |                          |                |
| 3620 Lux/S.NO:2722003                           | <b>Wet FLUORESCENT Particle Concentration 14 HF</b> | 0.1 to 0.4 ml/100 ml |                  | <b>Batch No:220605</b>     |  |  |                |                          |                |
| <b>Cal Due Date:16.OCT.2024</b>                 | <b>Black Magnetic Ink Concentration 7 HF</b>        | 1.2 to 2.4 ml/100 ml |                  | <b>EXPIRE DATE:</b> Jul-25 |  |  |                |                          |                |

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