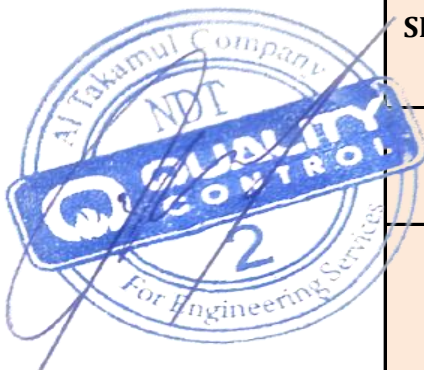


AI TAKAMUL COMPANY FOR ENGINEERING TESTS  
AND PROFESSIONAL SAFETY LIMITED  
Basra, North Rumaila, Quality Control Yard - Iraq



| CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION                                                                                          |  |                                                              |  |                      |  |                                                                                       |  |                                                                                                                 |           |                                                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|----------------------|--|---------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|--|
| Client:                                                                                                                                                               |  | HALLIBURTON (TSS)                                            |  |                      |  | Report No:                                                                            |  | QC-15-07-TSS-NDT-002                                                                                            |           |                                                                                       |  |
| Location:                                                                                                                                                             |  | TSS WORKSHOP & INSPECTION TEST AREA                          |  |                      |  | Job Number:                                                                           |  | QC-15-07-TSS-NDT-001                                                                                            |           |                                                                                       |  |
| Date:                                                                                                                                                                 |  | Tuesday, July 16, 2024                                       |  |                      |  | Next Inspection Date:                                                                 |  | Wednesday, January 15, 2025                                                                                     |           |                                                                                       |  |
| Type Of Inspection:                                                                                                                                                   |  | VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION |  |                      |  | Specification:                                                                        |  | ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019 )                                                         |           |                                                                                       |  |
|   |  |                                                              |  |                      |  | UNIT DESCRIPTION:                                                                     |  | X-OVER: 6" 150 CLASS FLANGE X 4" 206 THREAD                                                                     |           |                                                                                       |  |
|                                                                                                                                                                       |  |                                                              |  |                      |  | S/NO:                                                                                 |  | 02S-026-2                                                                                                       |           |                                                                                       |  |
|                                                                                                                                                                       |  |                                                              |  |                      |  | 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                                                          |  | Thread & Welding Critical areas inspected and found free from cracks and other defects                          |           |                                                                                       |  |
|                                                                                                                                                                       |  |                                                              |  |                      |  | FINAL RESULTS                                                                         |  | THE ABOVE INSPECTED AREAS WAS ACCEPTED                                                                          |           |                                                                                       |  |
| COMMENT:                                                                                                                                                              |  |                                                              |  |                      |  |  |  |                                                                                                                 |           |                                                                                       |  |
| (MPI Wet Fluorescent inspection Thread With UltraViolet Light)<br>Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast                            |  |                                                              |  |                      |  |                                                                                       |  |                                                                                                                 |           |                                                                                       |  |
| EQUIPMENT DETAILS                                                                                                                                                     |  |                                                              |  |                      |  | PERSON DETAILS                                                                        |  |                                                                                                                 | REVIEW BY |                                                                                       |  |
| EQUIPMENT :                                                                                                                                                           |  | AC/DC HAND Yoke                                              |  | EQUIPMENT :          |  | Shooting Coil DC                                                                      |  | EQUIPMENT :                                                                                                     |           | UV BLACK LIGHT: 3041 μw/cm²                                                           |  |
| S.NO:                                                                                                                                                                 |  | 201504048                                                    |  | S.NO:                |  | 22650                                                                                 |  | S.NO:                                                                                                           |           | 1898977                                                                               |  |
| Cal Due Date:                                                                                                                                                         |  | 14.OCT.2024                                                  |  | Cal Due Date:        |  | 15.OCT.2024                                                                           |  | Cal Due Date:                                                                                                   |           | 14.OCT.2024                                                                           |  |
| FLUORESCENT 14HF                                                                                                                                                      |  | Magnaflux                                                    |  | Batch No:            |  | 220306                                                                                |  | EXPIRE DATE:                                                                                                    |           | MARCH,2025                                                                            |  |
| Whie Contrast Paint Manufacture:                                                                                                                                      |  | Magnaflux                                                    |  | Batch No:            |  | 220602                                                                                |  | EXPIRE DATE:                                                                                                    |           | JUN,2025                                                                              |  |
| Digital Lux Meter<br>WHITE LIGHT INTENSITY:                                                                                                                           |  | TECHNICAL DETAILS                                            |  |                      |  | Black Magnetic Ink<br>Manufacture:7HF                                                 |  | STAMP & SIGNATURE:                                                                                              |           |  |  |
| 3620 Lux/S.NO:2722003                                                                                                                                                 |  | Wet FLUORESCENT Particle Concentration 14 HF                 |  | 0.1 to 0.4 ml/100 ml |  | Batch No:220605                                                                       |  |                                                                                                                 |           |                                                                                       |  |
| Cal Due Date:16.OCT.2024                                                                                                                                              |  | Black Magnetic Ink Concentration 7 HF                        |  | 1.2 to 2.4 ml/100 ml |  | EXPIRE DATE: Jul-25                                                                   |  |                                                                                                                 |           |                                                                                       |  |