

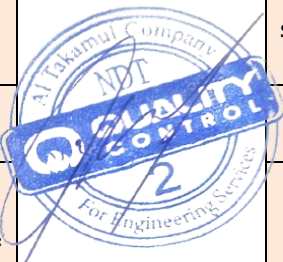


**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

| | | | |
|---|--|---|--|
| Client: | HALLIBURTON (TSS) | Report No: | QC-24-04-TSS-NDT-013 |
| Location: | TSS YARD | JOB NO: | QC-24-01-TSS-0116 |
| Inspection Date: | Monday, April 8, 2024 | Next Inspection Date: | Monday, October 7, 2024 |
| Type Of Inspection: | VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION | Specification: | ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A |
|  | UNIT DESCRIPTION: | FLANGE 3 1/8" 3K R31 X 3" 1502 WING | |
| | UNIT S/N: | HAH-19818-1-3 | |
| | 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 & Available 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) 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/cm ² | INSPECTOR NAME: M.SHAHZAD AHMED |  | SENIOR INSPECTOR: | NAVEED HUSSAIN | |
| S.NO: | 201504052 | S.NO: | 22650 | S.NO: | 1898977 | | | QUALIFICATION: ASNT LEVEL II MT & PT & VT | SUPERVISOR: | HANI ALI |
| Cal Due Date: | 12.AUG.2024 | Cal Due Date: | 12.AUG.2024 | Cal Due Date: | 12.AUG.2024 | | | STAMP & SIGNATURE: | CLIENT: | |
| FLUORESCENT 14HF | Magnaflux | Batch No: | 220306 | EXPIRE DATE: | MARCH,2025 | | | | | |
| White Contrast Paint Manufacture: | Magnaflux | Batch No: | 220602 | EXPIRE DATE: | JUN,2025 | | | | | |
| TECHNICAL DETAILS | | | | | Black Magnetic Ink Manufacture:7HF | | | | | |
| Digital Lux Meter WHITE LIGHT INTENSITY: | 3570 Lux/S.NO:2722003 | | Wet FLUORESCENT Particle Concentration 14 HF | 0.1 to 0.4 ml/100 ml | Batch No:220605 | | | | | |
| Cal Due Date:14.AUG.2024 | Black Magnetic Ink Concentration 7 HF | | 1.2 to 2.4 ml/100 ml | EXPIRE DATE: | Jul-25 | | | | | |

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