

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

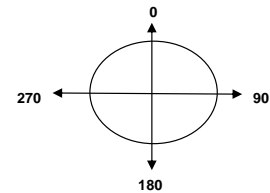
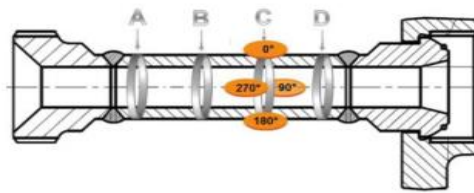
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

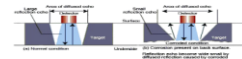
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|---------------------|--|-----------------------|--|
| CLIENT: | HALLIBURTON | REPORT NO.: | QC-24-05-TSS-NDT-009 |
| LOCATION: | TSS YARD | STANDARD: | ASTM E709 & ASTM E797 & ASME B31.1 |
| WORK ORDER # | ***** | HALLIBURTON DOC | Halliburton Acceptance Criteria WM-GL-HAL-SWT-501 |
| DATE OF INSPECTION: | Saturday, May 25, 2024 | NEXT INSPECTION DATE: | Saturday, May 24, 2025 |
| TYPE OF INSPECTION: | VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING & WITNESS PRESSURE TEST | | |
| DESCRIPTION: | 4" STRAIGHT JOINT 10FT H2S 4" 206 WING X THREAD | SERIAL NO: | 494951 |
| Pump NO: | 13119220 CAL DUE DATE 27.AUG.2024 | Pressure Gauge NO: | 486066 CAL DUE DATE 02.AUG.2024 |



* ALL READINGS IN INCHES
**MINIMUM THICKNESS PROVIDED BY CUSTMER



ONLINE TRACEABILITY



| THICKNESS POINTS AREA | WALL THICKNESS RESULT | | | | MINIMUM THICKNESS |
|-----------------------|-----------------------|-------|-------|-------|-------------------|
| | 0° | 90° | 180° | 270° | IN INCHES |
| A | 0.318 | 0.330 | 0.309 | 0.316 | 0.218 INCH |
| B | 0.321 | 0.309 | 0.315 | 0.313 | |
| C | 0.317 | 0.313 | 0.315 | 0.318 | |
| D | 0.324 | 0.331 | 0.328 | 0.332 | |

INSPECTION RESULT

| | | |
|----------|----------|--|
| VT & MPI | Accepted | According to ASTM E709 |
| UT | Accepted | According to ASTM E 797 & Halliburton Procedure WM-GL-SWT-501 |
| BODY | Accepted | *** These Are The Actual Readings Need To Follow The Halliburton Procedure |

Inspection Evaluation

MPI -The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable According to ASTM E709

Note:MPI Wet Fluorescent inspection Thread With UltraViolet Light

Magnetic Particle Inspection With A/C Hand Yoke Welds & Available Areas

U.T-The Above Item Was Found Acceptable As Per ASTM E797 & Halliburton Procedure WM-GL-SWT-501

Pressure TestWitness-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 2.000 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

| INSPECTION EQUIPMENT DETAILS | | | | TECHNICAL DETAILS | | | |
|----------------------------------|-----------|---------------------------|-------------|-------------------------------------|-------------|----------------------|-------------|
| AC YOKE S.N: | 201504048 | CAL DUE DATE | 14-Oct-24 | White Contrast WCP-2 | MANUFACTURE | BATCH NO | EXPIRE DATE |
| Digital Lux Meter WHITE LIGHT | 2722003 | CAL DUE DATE | 16-Oct-24 | | Magnaflux | 220602 | JUN,2025 |
| UT THICKNESS GAUGE: | 3997 | CAL DUE DATE | 14-Oct-24 | Black Magnetic Ink 7HF | MANUFACTURE | BATCH NO | EXPIRE DATE |
| UT TEST BLOCK: | NoBo5087 | CAL DUE DATE | 15-Oct-24 | | Magnaflux | 220605 | JULY,2025 |
| ASTM Test Block: | 1657 | CAL DUE DATE | 14-Oct-24 | Fluorescent Magnetic Ink 14HF | MANUFACTURE | BATCH NO | EXPIRE DATE |
| DC COIL: | 22650 | CAL DUE DATE | 15-Oct-24 | | Magnaflux | 220306 | March,2025 |
| UV BLACK LIGHT: | 1898977 | CAL DUE DATE | 14-Oct-24 | Concentration of 14HF: | | 0.1 to 0.4 ml/100 ml | |
| WHITE LIGHT INTENSITY: | 3620 lux | UV BLACK LIGHT INTENSITY: | 3140 μw/cm² | Concentration of 7HF: | | 1.2 to 2.4 ml/100 ml | |

| PERSON DETAILS | | REVIEW BY | | | |
|--------------------|----------------|------------------------|----------------|---------|--|
| INSPECTOR NAME: | M.Shahad Ahmed | SENIOR INSPECTOR: | NAVEED HUSSAIN | CLIENT: | |
| QUALIFICATION: | UT II | INSPECTION SUPERVISOR: | HANI ALI | HB&SIGN | |
| SIGNATURE & STAMP: | | | | DATE: | |

Original - Client Files Copy - Area-Office QC/FN/PT/077 Rev.00 DATED 07.NOV. 2021

