

# 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

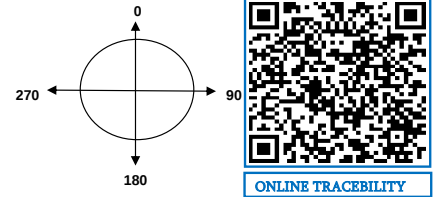
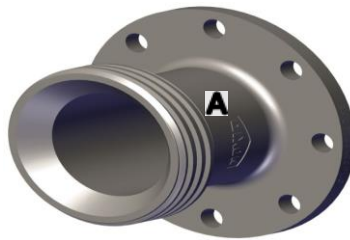
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

|                     |                                                                                                                        |                       |                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------|
| CLIENT:             | <b>TAREEQ-AL-SALEM</b>                                                                                                 | REPORT No.:           | QC-24-09-TAL-NDT-001                         |
| LOCATION:           | <b>TSS YARD</b>                                                                                                        | STANDARD:             | ASTM E709 & ASTM E797 , ASME B31.1, & API 6A |
| WORK ORDER          | ***                                                                                                                    |                       |                                              |
| DATE OF INSP:       | Friday, September 20, 2024                                                                                             | NEXT INSPECTION DATE: | Wednesday, March 19, 2025                    |
| TYPE OF INSPECTION: | <b>VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING &amp; WITNESS PRESSURE TEST</b> |                       |                                              |

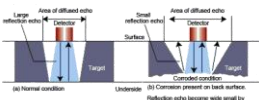
|              |                                                    |            |          |
|--------------|----------------------------------------------------|------------|----------|
| DESCRIPTION: | <b>ELECTRICAL TRANSFER PUMP</b>                    | SAP NO:    | 19092024 |
| DESCRIPTION: | <b>IN LET FLANGE: 4" 150 CLASS X 4" 206 THREAD</b> | SERIAL NO: | 1912     |

### INSPECTION DETAILS

|                        |                              |                     |                             |
|------------------------|------------------------------|---------------------|-----------------------------|
| Max. Working Pressure: | 170 PSI                      | Holding Time:       | 21 Min                      |
| Pump S.N.:             | 13119220 Cal DUE.19.AUG.2025 | Pressure Gauge NO.: | 468066 Cal DUE.19 JULY.2025 |



\* ALL READINGS IN MM  
\*\*MINIMUM THICKNESS PROVIDED BY CUSTOMER



| POINTS | THICKNESS AT POSITION | MINIMUM THICKNESS |
|--------|-----------------------|-------------------|
|        | A                     | IN MM             |
| 0°     | 8.72mm                | 5mm               |
| 90°    | 8.49mm                | 5mm               |
| 180°   | 8.54mm                | 5mm               |
| 270°   | 8.65mm                | 5mm               |

### INSPECTION RESULT

|          |          |                                                                                      |
|----------|----------|--------------------------------------------------------------------------------------|
| VT & MPI | Accepted | * ACCORDING TO ASTM E709                                                             |
| UT       | Accepted | According to ASTM E 797)                                                             |
| BODY     | Accepted | *** These Are The Actual Readings Need To Follow As Per STANDARD Acceptance Criteria |

### Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The ASTM E709

Note: MPI Wet Fluorescent inspection Thread With UltraViolet Light

U.T- The Above Item Was Found Acceptable As Per ASTM E 797

Pressure Test- The Above Item was Pressure Tested Up to 170 PSI Maximum Working pressure, Hold For 21 Minutes no Leak was Found while testing & Pressure Was Stable According To Chart Recorder

| INSPECTION EQUIPMENT DETAILS     |             |                        |                      | TECHNICAL DETAILS                   |                 |          |             |
|----------------------------------|-------------|------------------------|----------------------|-------------------------------------|-----------------|----------|-------------|
| AC YOKE S.N:                     | 201504048   | CAL DUE DATE           | 14-10-2024           | White Contrast<br>WCP-2             | MANUFAC<br>TUBE | BATCH NO | EXPIRE DATE |
| Digital Lux Meter<br>WHITE LIGHT | 2722003     | CAL DUE DATE           | 16-10-2024           |                                     | Magnaflux       | 220602   | JUN,2025    |
| DC COIL:                         | 22650       | CAL DUE DATE           | 15-10-2024           | Black Magnetic<br>Ink 7HF           | MANUFAC<br>TUBE | BATCH NO | EXPIRE DATE |
| UVA BRIGHTACK:                   | 1898977     | CAL DUE DATE           | 14-10-2024           |                                     | Magnaflux       | 220605   | JULY,2025   |
| INTENSITY METER:                 | 1608000134  | CAL DUE DATE           | 16-10-2024           | Fluorescent<br>Magnetic Ink<br>14HF | MANUFAC<br>TUBE | BATCH NO | EXPIRE DATE |
| UVA LIGHT INTENSITY:             | 2920 µw/cm² | Concentration of 14HF: | 0.1 to 0.4 ml/100 ml |                                     | Magnaflux       | 220306   | March,2025  |

### PERSON DETAILS

### REVIEW BY

|                    |                 |                        |                |         |  |
|--------------------|-----------------|------------------------|----------------|---------|--|
| INSPECTOR NAME:    | M.SHAHZAD AHMED | SENIOR INSPECTOR:      | NAVEED HUSSAIN | CLIENT: |  |
| QUALIFICATION:     | ASNT LEVEL 1    | INSPECTION SUPERVISOR: | HANI ALI       | HB&SIGN |  |
| SIGNATURE & STAMP: |                 |                        |                | DATE:   |  |

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



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Basra, North Rumaila, Quality Control Yard - Iraq



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

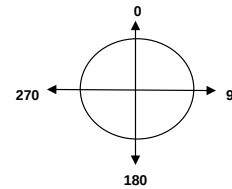
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|                     |                                                                                                                        |                       |                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------|
| CLIENT:             | <b>TAREEQ-AL-SALEM</b>                                                                                                 | REPORT No.:           | QC-24-09-TAL-NDT-002                         |
| LOCATION:           | <b>TSS YARD</b>                                                                                                        | STANDARD:             | ASTM E709 & ASTM E797 , ASME B31.1, & API 6A |
| WORK ORDER          | ***                                                                                                                    |                       |                                              |
| DATE OF INSP:       | Friday, September 20, 2024                                                                                             | NEXT INSPECTION DATE: | Wednesday, March 19, 2025                    |
| TYPE OF INSPECTION: | <b>VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING &amp; WITNESS PRESSURE TEST</b> |                       |                                              |

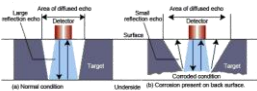
|              |                                                   |            |          |
|--------------|---------------------------------------------------|------------|----------|
| DESCRIPTION: | <b>ELECTRICAL TRANSFER PUMP</b>                   | SAP NO:    | 19092024 |
| DESCRIPTION: | <b>OUT LET FLANGE: 4" 150 CLASS X 4" 206 WING</b> | SERIAL NO: | 1911     |

### INSPECTION DETAILS

|                        |                              |                     |                             |
|------------------------|------------------------------|---------------------|-----------------------------|
| Max. Working Pressure: | 170 PSI                      | Holding Time:       | 20 Min                      |
| Pump S.N.:             | 13119220 Cal DUE.19.AUG.2025 | Pressure Gauge NO.: | 468066 Cal DUE.19 JULY.2025 |



\* ALL READINGS IN MM  
\*\*MINIMUM THICKNESS PROVIDED BY CUSTOMER



| POINTS | THICKNESS AT POSITION | MINIMUM THICKNESS |
|--------|-----------------------|-------------------|
|        | A                     | IN MM             |
| 0°     | 8.59mm                | 5mm               |
| 90°    | 8.61mm                | 5mm               |
| 180°   | 8.42mm                | 5mm               |
| 270°   | 8.69mm                | 5mm               |

### INSPECTION RESULT

|          |          |                                                                                      |
|----------|----------|--------------------------------------------------------------------------------------|
| VT & MPI | Accepted | * ACCORDING TO ASTM E709                                                             |
| UT       | Accepted | According to ASTM E 797)                                                             |
| BODY     | Accepted | *** These Are The Actual Readings Need To Follow As Per STANDARD Acceptance Criteria |

### Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The ASTM E709

Note: MPI Wet Fluorescent inspection Thread With UltraViolet Light

U.T- The Above Item Was Found Acceptable As Per ASTM E 797

Pressure Test- The Above Item was Pressure Tested Up to 170 PSI Maximum Working pressure, Hold For 21 Minutes no Leak was Found while testing & Pressure Was Stable According To Chart Recorder

| INSPECTION EQUIPMENT DETAILS     |             |                        |                      | TECHNICAL DETAILS                   |                 |          |             |
|----------------------------------|-------------|------------------------|----------------------|-------------------------------------|-----------------|----------|-------------|
| AC YOKE S.N:                     | 201504048   | CAL DUE DATE           | 14-10-2024           | White Contrast<br>WCP-2             | MANUFAC<br>TURE | BATCH NO | EXPIRE DATE |
| Digital Lux Meter<br>WHITE LIGHT | 2722003     | CAL DUE DATE           | 16-10-2024           |                                     | Magnaflux       | 220602   | JUN,2025    |
| DC COIL:                         | 22650       | CAL DUE DATE           | 15-10-2024           | Black Magnetic<br>Ink 7HF           | MANUFAC<br>TURE | BATCH NO | EXPIRE DATE |
| UVA BLIGHTACK:                   | 1898977     | CAL DUE DATE           | 14-10-2024           |                                     | Magnaflux       | 220605   | JULY,2025   |
| INTENSITY METER:                 | 1608000134  | CAL DUE DATE           | 16-10-2024           | Fluorescent<br>Magnetic Ink<br>14HF | MANUFAC<br>TURE | BATCH NO | EXPIRE DATE |
| UVA LIGHT INTENSITY:             | 2920 µw/cm² | Concentration of 14HF: | 0.1 to 0.4 ml/100 ml |                                     | Magnaflux       | 220306   | March,2025  |

### PERSON DETAILS

### REVIEW BY

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| INSPECTOR NAME:    | M. SHAHZAD AHMED | SENIOR INSPECTOR:      | NAVEED HUSSAIN | CLIENT: |  |
| QUALIFICATION:     | UT & MPI         | INSPECTION SUPERVISOR: | HANI ALI       | HB&SIGN |  |
| SIGNATURE & STAMP: |                  |                        |                | DATE:   |  |

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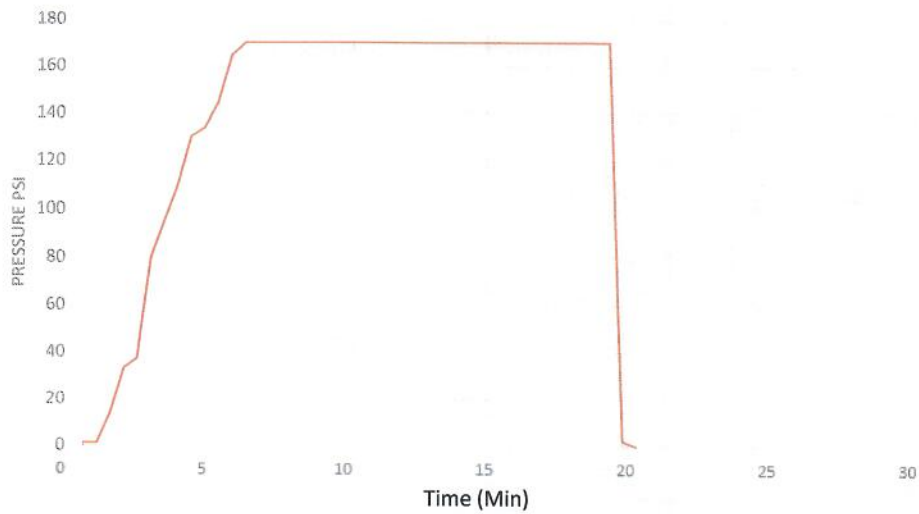
hany.akafi@qualitycontrol-iraq.com

## Data Collection Report

| Gauge Information |               |
|-------------------|---------------|
| Serial Number     | 468066        |
| Model             | XP2I          |
| Message Store     | TSS test area |
| Units             | PSI           |
| SCALE             | 15000 PSI     |

| Run Info   |           |
|------------|-----------|
| Start Time | 9:22 AM   |
| Stop Time  | 9:42 AM   |
| Test Date  | 20-Sep-24 |
| EQ NUMBER  | 19092024  |
| CAL DATE   | 20-Jul-24 |

### READING



TESTED BY : Feras Abbas  
APPROVED BY: Hassan Kamel  
COMMENTS: Outlet Test



## Data Collection Report

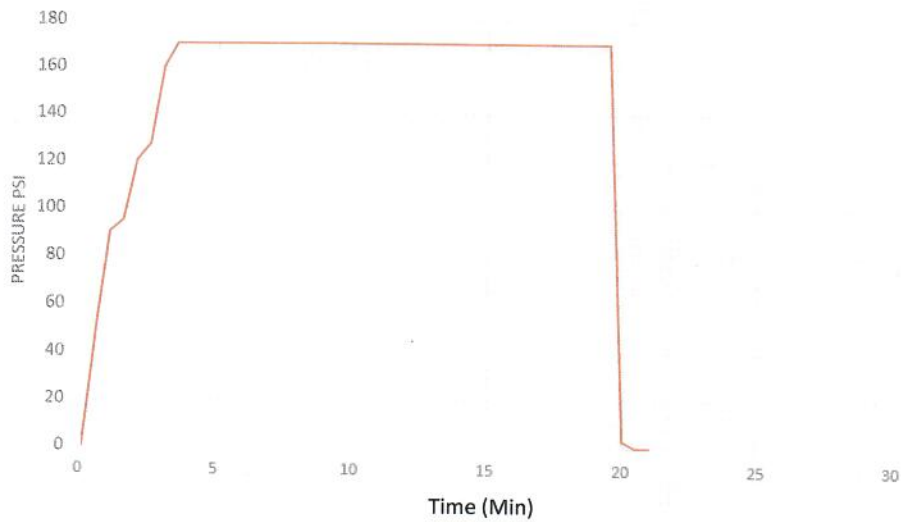
### Gauge Information

|               |               |
|---------------|---------------|
| Serial Number | 468066        |
| Model         | XP2I          |
| Message Store | TSS test area |
| Units         | PSI           |
| SCALE         | 15000 PSI     |

### Run Info

|            |           |
|------------|-----------|
| Start Time | 8:31 AM   |
| Stop Time  | 8:51 AM   |
| Test Date  | 20-Sep-24 |
| EQ NUMBER  | 19092024  |
| CAL DATE   | 20-Jul-24 |

### READING



TESTED BY : Feras Abbas  
APPROVED BY: Hassan Kamel  
COMMENTS: Body Test

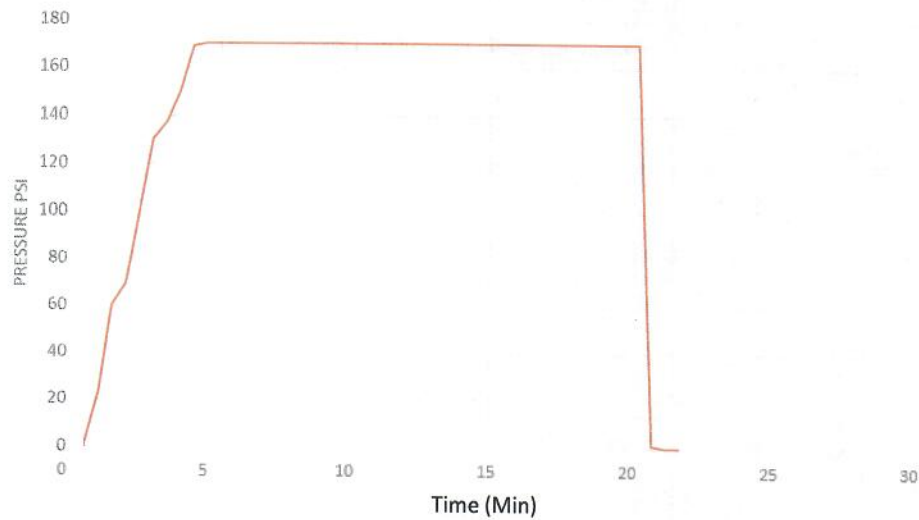


## Data Collection Report

| Gauge Information |               |
|-------------------|---------------|
| Serial Number     | 468066        |
| Model             | XP2I          |
| Message Store     | TSS test area |
| Units             | PSI           |
| SCALE             | 15000 PSI     |

| Run Info   |           |
|------------|-----------|
| Start Time | 8:55 AM   |
| Stop Time  | 9:16 AM   |
| Test Date  | 20-Sep-24 |
| EQ NUMBER  | 19092024  |
| LAST CALIB | 20-Jul-24 |

### READING



TESTED BY : Feras Abbas  
APPROVED BY: Hassan Kamel  
COMMENTS: Inlet Test

SIGN: \_\_\_\_\_

SIGN: \_\_\_\_\_

