

# AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

Email: [OP@qualitycontrol-iraq.com](mailto:OP@qualitycontrol-iraq.com) / [hany.akafi@qualitycontrol-iraq.com](mailto:hany.akafi@qualitycontrol-iraq.com)



## CERTIFICATE OF INSPECTION AFTER REPAIR FOR 5" DRILL PIPE

|                                                    |                                                                                                                                                                                                       |                        |                                                                                                      |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------|
| Client Name:                                       | DAQING DRILLING                                                                                                                                                                                       | Report No.:            | QC-2024-04-DQ-11-002                                                                                 |
| Acceptance Criteria:                               | <input checked="" type="checkbox"/> API SPEC 7-2                                                                                                                                                      | Date Of Inspection:    | 09.APRIL.2024                                                                                        |
| Work Location:                                     | ABERDEEN WORKSHOP                                                                                                                                                                                     | Rig Name               | DQ-11                                                                                                |
| Test Equipment & Consumable Details                |                                                                                                                                                                                                       |                        |                                                                                                      |
| WHITE CONTRAST WCP-2                               | Batch #: 220602 Manufacture: Magnaflux<br>Exp Date: JUN.2025                                                                                                                                          | TECHNICAL DETAILS      | Wet Visible Continuous                                                                               |
| BLACK INK 7HF                                      | Batch#: 220605 Manufacture: Magnaflux<br>Exp Date: JULY.2025                                                                                                                                          | COIL(1200 AMP-TURNS/IN | SC 22713 Cal.15.FEB.2024<br>Cal Due 14.AUG.2024                                                      |
| FLUORESCENT 14HF                                   | Batch #: 220306 Manufacture: Magnaflux<br>Exp Date: March.2025                                                                                                                                        | A.C HAND YOKE          | 201504053 Cal.15.FEB.2024<br>Cal Due 14.AUG.2024                                                     |
| INTENSITY METER                                    | SR#1608000134 CAL.Date Cal. 15.FEB.2024<br>Cal Due 14.AUG.2024                                                                                                                                        | UV BLACK LIGHT         | SR#1900084 Cal.15.FEB.2024<br>Cal Due 14.AUG.2024                                                    |
| LEAD GAGE                                          | SR#AH07KF0027 GAEMAKER LG-5003<br>Cal. 13.FEB.2024<br>Cal Due 12.AUG.2024                                                                                                                             | THREAD PROFILE GAGE    | SR#21336 Cal. 13.FEB.2024<br>Cal Due 12.AUG.2024<br>SR#21335 Cal. 15.FEB.2024<br>Cal Due 14.AUG.2024 |
| Magnetic Partical Concentration 7 HF               | 1.2 TO 2.4 ML/100 ML                                                                                                                                                                                  | WMPT Light Intensity   | 3500 Lux                                                                                             |
| Magnetic particle concentration<br>flourcent 14 HF | 0.1 TO 0.4 ML/100 ML                                                                                                                                                                                  | UV LIGHT INTENSITY:    | 3050 $\mu\text{w}/\text{cm}^2$                                                                       |
| METHODOLOGY:                                       | <ul style="list-style-type: none"> <li>Through Visual inspection</li> <li>Dimensional</li> <li>MPI inspection with Ultraviolet light</li> <li>*Lead Gaiging, &amp; Thread Profile Gaiging.</li> </ul> |                        |                                                                                                      |
| Connection:                                        | NC-50 (4 1/2 IF)                                                                                                                                                                                      | Size:                  | 5"                                                                                                   |

| Serial No. | Result of Inspection |     |      |           |         |     |              | EMI | Dimensional Inspection(in) |         |                        |                          |                        |                    |         |                       | Pin Tong (in) | Box Tong (in) |                       |                             |
|------------|----------------------|-----|------|-----------|---------|-----|--------------|-----|----------------------------|---------|------------------------|--------------------------|------------------------|--------------------|---------|-----------------------|---------------|---------------|-----------------------|-----------------------------|
|            | Pin                  | Box | Tube | Coating % | OD Wear | H.B | Remaining WT |     | Pin                        |         |                        |                          |                        |                    | Box     |                       |               |               |                       |                             |
|            |                      |     |      |           |         |     |              |     | OD (in)                    | ID (in) | Pin $\varnothing$ (in) | Bevel $\varnothing$ (in) | Pin neck $\varnothing$ | Seal $\varnothing$ | OD (in) | CB $\varnothing$ (in) |               |               | CB $\varnothing$ (in) | Shoulder $\varnothing$ (in) |
| A5         | --                   | Acc | --   | --        | --      | --  | --           | --  | --                         | --      | --                     | --                       | --                     | --                 | 5 5/16  | 21/32                 | --            | 6 1/16        | --                    | 7 1/8                       |
| 216        | --                   | Acc | --   | --        | --      | --  | --           | --  | --                         | --      | --                     | --                       | --                     | --                 | 5 5/16  | 21/32                 | --            | 6 1/16        | --                    | 11 1/4                      |
| A6         | --                   | Acc | --   | --        | --      | --  | --           | --  | --                         | --      | --                     | --                       | --                     | --                 | 5 5/16  | 21/32                 | --            | 6 1/16        | --                    | 7 1/8                       |

|             |                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------|
| Conclusion: | ■ 03 Joint From BOX Side Were Found Acceptable After Repair At time of Inspection ready to use. |
|-------------|-------------------------------------------------------------------------------------------------|

### Abbreviations :

|              |                        |           |                    |           |                          |           |               |       |               |        |                |
|--------------|------------------------|-----------|--------------------|-----------|--------------------------|-----------|---------------|-------|---------------|--------|----------------|
| OD           | Outside Diameter       | ID        | Inside Diameter    | SRG       | Stress Relief Groove     | CB        | Counter Bore  | BB    | Bore Back     | FB     | Float Bore     |
| $\square$    | Diameter               | $\square$ | Length             | $\square$ | Width                    | $\square$ | Depth         | NP.   | Not Present   | NA.    | Not Applicable |
| EGR          | Elevator Groove Recess | SGR       | Slip Groove Recess | CR        | Crack                    | B         | Bent          | PC    | Premium Class | RF     | Reface         |
| GT           | Galled Thread          | TP        | Thread Pitting     | SP        | Seal Pitting             | TD        | Thread Damage | SD    | Seal Damage   | M      | Mashed         |
| 1            | 100 % Coating          | 2         | 99-71 % Coating    | 3         | 70-40 % Coating          | 4         | Up to 40 %    | 5     | Nil           | WT     | Wall Thickness |
| Colors Code: |                        | White     | No Defects         | Red       | Crack or Extreme Damage. | Blue      | Damage        | Green | Seal Damage   | Yellow | ACFM           |

|                 |            |                   |         |             |            |                     |  |
|-----------------|------------|-------------------|---------|-------------|------------|---------------------|--|
| Inspector Name: | RAO SOHAIL | Review By         |         |             |            |                     |  |
| Qualification:  |            | Senior Inspector: | M.FAHAD | Supervisor: | WAQAS AWAN | Customer Name:      |  |
| Signature:      |            |                   |         |             |            | Customer Signature: |  |

Original - Client Files

Copy - Area Office

QC/FN/AF,REP/026 Rev.00 Dated 07 NOV 2021

