

# 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)



## AFTER REPAIR INSPECTION CERTIFICATE OF 6 3/4" DRILL COLLAR

|   |  |                        |  |
|---|--|------------------------|--|
| Client Name:                                    | <b>DAQING DRILLING</b>   | Report No.:            | QC-2024-04-DQ-1202-002   |
| Acceptance Criteria:                            | <input checked="" type="checkbox"/> API SPEC 7-2   | Date Of Inspection:    | 09.APRIL.2024  |
| Work Location:                                  | <b>ABERDEEN WORKSHOP</b>   | Rig Name               | DQ-1202  |
| <b>Test Equipment &amp; Consumeable Details</b> |  |                        |  |
| 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 Due14.AUG.2024   |
| FLUORESCENT 14HF                                | Batch #: 220306 Manufacture: Magnaflux<br>Exp Date: March.2025   | A.C HAND YOKE          | 201504053 Cal.15.FEB.2024<br>Cal Due14.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 Due14.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 flourcent 14 HF | 0.1 TO 0.4 ML/100 ML   | UV LIGHT INTENSITY:    | 3050 μw/cm <sup>2</sup>  |
| Magnetism Direction (Longitudinal)              |  |                        |  |
| METHODOLOGY:                                    | <input checked="" type="checkbox"/> Through Visual inspection <input checked="" type="checkbox"/> MPI inspection with Ultraviolet light<br><input checked="" type="checkbox"/> Dimensional 3      *Lead Gaiging, & Thread Profile Gauging. |                        |  |
| Connection:                                     | <b>NC50</b>  | Size:                  | <b>6 3/4"</b>  |

| Serial No. | Visual Inspection |     |      | MPI |     |      | Dimensional 3 Inspection |         |          |          |          |            |         |         |         |         |         |            |               |               |          |          |              |   |
|------------|-------------------|-----|------|-----|-----|------|--------------------------|---------|----------|----------|----------|------------|---------|---------|---------|---------|---------|------------|---------------|---------------|----------|----------|--------------|---|
|            | Pin               | Box | Body | Pin | Box | Body | Pin                      |         |          |          |          | Box        |         |         |         |         | Body    |            |               |               |          |          |              |   |
|            |                   |     |      |     |     |      | OD (in)                  | ID (in) | SRG (in) | SRG (in) | Pin (in) | Bevel (in) | OD (in) | CB (in) | CB (in) | BB (in) | BB (in) | Bevel (in) | Pin Tong (in) | Box Tong (in) | EGR (in) | SGR (in) | Overall (in) |   |
| 57948-25   | Acc               | -   | -    | Acc | -   | -    | 6 3/4"                   | 2 7/8"  | 4 23/32" | 15/16"   | 4 7/16"  | 6 5/16"    | -       | -       | -       | -       | -       | -          | -             | 29 3/8"       | -        | -        | -            | - |

**Conclusion:** (01) The above Mentioned 8" Drill Collar were found "Acceptable" from Pin Connection 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     |
| Ø            | Diameter               | Ø     | Length             | Ø   | Width                | Ø    | 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     | Blue | Damage        | Green | Seal Damage   | Yellow | ACFM           |

|  |                   |         |             |            |                     |  |
|--|-------------------|---------|-------------|------------|---------------------|--|
| Inspector Name:  | 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 |                   |         |             |            |                     |  |

