

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 / hany.akafi@qualitycontrol-iraq.com



AFTER REPAIR INSPECTION CERTIFICATE OF X-OVER#0122013

| | | | |
|---|---|------------------------|--|
| Client Name: | HILONG OIL SERVICE&ENGINEERING CO,Ltd IRAQ BRANCH. | Report No.: | HL-22-QC-24-11-RS-003 |
| Acceptance Criteria: | <input checked="" type="checkbox"/> API SPEC 7-2 | Date of Inspection: | 24.NOV.2024 |
| Work Location: | ABERDEEN WORKSHOP BASRA IRAQ | Rig No.: | HL-22 |
| TEST EQUIPMENT & CONSUMABLE DETAILS | | | |
| WHITE CONTRAST WCP-2 | Batch #: 220602 Manufacture: Magnaflux Exp Date: JUN,2025 | TECHNICAL DETAILS | Wet Visible Continuous |
| BLACK INK 7HF | Batch#.220605 Manufacture: Magnaflux Exp Date: JULY.2025 | COIL(1200 AMP-TURNS/IN | 22713 Cal.25.JUL.2024 Cal Due24.FEB.2025 |
| FLUORESCENT 14HF | Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2025 | A.C HAND YOKE | PY-10 Cal.25.JUL.2024 Cal Due24.FEB.2025 |
| INTENSITY METER | SR#1608000134 CAL.Date Cal. 25.JUL.2024 Cal Due 24.FEB.2025 | UV BLACK LIGHT | SR#1895313 Cal.25.JUL.2024 Cal Due24.FEB.2025 |
| LEAD GAGE | SR#AH07KF0026 GAEMAKER LG- Cal. 25.JUL.2024 Cal Due 24.FEB.2025 | THREAD PROFILE GAGE | SR#21336 Cal. Cal.25.JUL.2024 Cal Due24.FEB.2025 SR#21335 Cal. Cal.25.JUL.2024 Cal Due24.FEB.2025 |
| Magnetic Partical Concentration 7 HF | 1.2 TO 2.4 ML/100 ML | WMPT Light Intensity | 3520 Lux |
| Magnetic particle concentration flourcent 14 HF | 0.1 TO 0.4 ML/100 ML | UV LIGHT INTENSITY: | 2950 μw/cm ² |
| Magnetism Direction (Longitudinal) | | | |
| METHODOLOGY: | • Through Visual inspection • Dimensional • MPI inspection with Ultraviolet light *Lead Gaiging, & Thread Profile Gaiging. | | |

| Serial No. | Description | Connections | | Inspection Results | | Dimensional Inspection | | | | | | | | | | | | | | | |
|------------|-------------|-------------|------|--------------------|------|------------------------|--------|----------|----------|-----------|-----------|-------------|--------|----------|----------|----------|----------|-------------|-----------------|----------------|---------------|
| | | Box | | Body | | Box | | | | | | | Box | | | | Body | | | | |
| | | Box | Box | Box | Box | Body | OD(In) | CB φ(In) | CB δ(In) | BBD φ(In) | BBL λ(In) | Bevel φ(In) | OD(In) | CB φ(In) | CB δ(In) | BB φ(In) | BB λ(In) | Bevel φ(In) | Box Tong λ (in) | Overall λ (in) | Box Tong (In) |
| 0122013 | X-OVER | 5 1/2"FH | NC50 | Acc. | Acc. | - | 7 3/8" | 5 29/32" | 5/8" | - | - | 7 3/64" | 7 3/8" | 5 5/16" | 5/8" | - | - | 643/64" | - | 14 5/8" | - |

Conclusion :

01 - The Above Mentioned X-OVER was found "Acceptable" From Box Side After Repair At the 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 |
| φ | Diameter | λ | Length | σ | Width | δ | 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 | ACFM | Green | Field Repair | Yellow | Damage |

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|--|--------------|--|---------------------|----------|-------------|----------------|
| Inspector Name: | RAO SOHAIL | | Review By | | | |
| Qualification: | ASNT Level 3 | | Senior Inspector: | M.SARWAR | Supervisor: | AHMED MOHAMMED |
| Signature: | | | Customer Name: | | | |
| | | | Customer Signature: | | | |
| Original - Client Files Copy - Area Office QC/FN/AF,REP/026 Rev.00 Dated 01 AUG 2021 | | | | | | |

