

**AI TAKAMUL COMPANY FOR ENGINEERING TESTS  
AND PROFESSIONAL SAFETY LIMITED**  
Basra, North Rumaila, Quality Control Yard - Iraq



**CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION**

|                                                        |                                                              |  |                                                                                                                                                                          |                              |                                                      |  |  |
|--------------------------------------------------------|--------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|--|--|
| <b>Client:</b>                                         | HALLIBURTON (HCT)                                            |  |                                                                                                                                                                          | <b>Report No:</b>            | QC-25-01-MS-HCT-020B                                 |  |  |
| <b>Location:</b>                                       | HALLIBURTON HCT WORKSHOP                                     |  |                                                                                                                                                                          | <b>Job Number:</b>           | 120125                                               |  |  |
| <b>Inspection Date:</b>                                | Thursday, January 16, 2025                                   |  |                                                                                                                                                                          | <b>Next Inspection Date:</b> | Tuesday, July 15, 2025                               |  |  |
| <b>Type Of Inspection:</b>                             | VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION |  |                                                                                                                                                                          | <b>STANDARD:</b>             | DS-1 VOLUME-4 FIFTH EDITION CLASS A1                 |  |  |
|                                                        | PISTON 101522097, B#AEK2208629-2                             |  | <b>HCT DOC:</b>                                                                                                                                                          |                              | MAN-GL-HAL-HCT-900 REV NO.63                         |  |  |
|                                                        | CYLINDER 101311497, B#AFQ2166262-2                           |  | <b>TOOL DESCRIPTION:</b>                                                                                                                                                 |                              | 7-5/8" X 9-5/8" HI TRQ XSL                           |  |  |
|                                                        | COUPLING 101522117, B#AEK2208602-1                           |  | <b>IDENTIFICATION NUMBER:</b>                                                                                                                                            |                              | EQ#13742275,SAP#102849536, BATCH#0004709946, IRQ-21, |  |  |
|                                                        | MANDREL, EXPANSION SAP:102841847, B#ALQ21361-04              |  | <b>INSPECTION RESULT :</b>                                                                                                                                               |                              |                                                      |  |  |
|                                                        | RETAINER SAP:102841744, B# AME21K1107-03                     |  | VISUAL & MAGNETIC PARTICLE INSPECTION ( M.P.I. ) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION                                                          |                              |                                                      |  |  |
|                                                        | CONE MANDREL SAP:102841741, B#AEK2208617-1                   |  | Thread & Available critical areas inspected and found free from cracks and other defects                                                                                 |                              |                                                      |  |  |
|                                                        | PISTON MANDREL SAP:102822815, B#0004715613-1                 |  | <b>FINAL RESULTS</b>                                                                                                                                                     |                              |                                                      |  |  |
|                                                        | CONE SHOE SAP:102759865, B#AME21L0127-3                      |  | THE ABOVE INSPECTED AREAS WAS ACCEPTED                                                                                                                                   |                              |                                                      |  |  |
|                                                        | ADAPTER SAP:102675303,B#ALG2162723                           |  | <b>COMMENT:</b><br><br>(MPI Wet Fluorescent Inspection Thread & Body With UltraViolet Light)<br>Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast |                              |                                                      |  |  |
|                                                        | RING, SPACER SAP:101522179, B#ALG2163140                     |  |                                                                                                                                                                          |                              |                                                      |  |  |
|                                                        | PISTON, DAMPER SAP:101585578 ,B#ALG2163141                   |  |                                                                                                                                                                          |                              |                                                      |  |  |
|                                                        | COLLET, PROP SAP:102078649, B#ALA214945-1                    |  |                                                                                                                                                                          |                              |                                                      |  |  |
|                                                        | FLAPPER SEAT SAP:102082301, B#AV22021854-01                  |  |                                                                                                                                                                          |                              |                                                      |  |  |
|                                                        | RETAINER SLIDING SAP:1013598819, B#AHF2273086                |  |                                                                                                                                                                          |                              |                                                      |  |  |
|                                                        | BUSHING SAP:101359817, B#ALP2200198-05                       |  |                                                                                                                                                                          |                              |                                                      |  |  |
| BUSHING SAP:101359818, B#ALP2200417-05                 |                                                              |  |                                                                                                                                                                          |                              |                                                      |  |  |
| BUSHING SAP:101359817, B#ALP2200198-06                 |                                                              |  |                                                                                                                                                                          |                              |                                                      |  |  |
| LOAD SHOULDER SAP:101585577, B#KMM22210366-2           |                                                              |  |                                                                                                                                                                          |                              |                                                      |  |  |
| SHOULDER SET DOWN SAP:101896275,B# AAEK2208604-4       |                                                              |  |                                                                                                                                                                          |                              |                                                      |  |  |
| GUIDE GARTER SPRING SAP:102984645, B#AME21K1109-03     |                                                              |  |                                                                                                                                                                          |                              |                                                      |  |  |
| RING SPLIT COLLET RETAINER SAP:102460705, B#ALP2103706 |                                                              |  |                                                                                                                                                                          |                              |                                                      |  |  |
| COLLET SAP:102686987, B#AYX21M2523                     |                                                              |  |                                                                                                                                                                          |                              |                                                      |  |  |
| TORQUE PIN SAP:101522184,B# AB22296748                 |                                                              |  |                                                                                                                                                                          |                              |                                                      |  |  |
| TORQUE PIN SAP:101522184, B#AB22301073-01              |                                                              |  |                                                                                                                                                                          |                              |                                                      |  |  |

| EQUIPMENT DETAILS                           |                                              |                      |                  |                      |                                                | PERSON DETAILS                            |  | REVIEW BY                                              |                    |
|---------------------------------------------|----------------------------------------------|----------------------|------------------|----------------------|------------------------------------------------|-------------------------------------------|--|--------------------------------------------------------|--------------------|
| <b>EQUIPMENT :</b>                          | AC/DC HAND Yoke                              | <b>EQUIPMENT :</b>   | Shooting Coil DC | <b>EQUIPMENT :</b>   | UV BLACK LIGHT: 3170 $\mu\text{w}/\text{cm}^2$ | <b>INSPECTOR NAME:</b><br>M.Shahzad Ahmed |  | <b>SENIOR INSPECTOR:</b>                               | NAVEED HUSSAIN     |
| <b>S.NO:</b>                                | 201504052                                    | <b>S.NO:</b>         | 22650            | <b>S.NO:</b>         | 1898977                                        |                                           |  |                                                        |                    |
| <b>Cal Due Date:</b>                        | 11.APRIL.2025                                | <b>Cal Due Date:</b> | 12.APRIL.2025    | <b>Cal Due Date:</b> | 11.APRIL.2025                                  |                                           |  | <b>QUALIFICATION:</b><br>ASNT LEVEL II<br>MT & PT & VT | <b>SUPERVISOR:</b> |
| <b>FLUORESCENT 14HF</b>                     | Magnaflux                                    | <b>Batch No:</b>     | 220306           | <b>EXPIRE DATE:</b>  | MARCH,2025                                     | <b>STAMP &amp; SIGNATURE:</b>             |  | <b>CLIENT:</b>                                         |                    |
| <b>White Contrast Paint Manufacture:</b>    | Magnaflux                                    | <b>Batch No:</b>     | 220602           | <b>EXPIRE DATE:</b>  | JUN,2025                                       |                                           |  |                                                        |                    |
| Digital Lux Meter<br>WHITE LIGHT INTENSITY: | <b>TECHNICAL DETAILS</b>                     |                      |                  |                      | Black Magnetic Ink Manufacture:7HF             |                                           |  |                                                        |                    |
| 3660 Lux/S.NO:2722003                       | Wet FLUORESCENT Particle Concentration 14 HF | 0.1 to 0.4 ml/100 ml |                  | Batch No:220605      |                                                |                                           |  |                                                        |                    |
| <b>Cal Due Date:13.APRIL.2025</b>           | Black Magnetic Ink Concentration 7 HF        | 1.2 to 2.4 ml/100 ml |                  | <b>EXPIRE DATE:</b>  | Jul-25                                         |                                           |  |                                                        |                    |

Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021