



# ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

## SINGLE JOINT ELEVATOR - CAT IV INSPECTION REPORT



|                     |                                   |                  |                        |
|---------------------|-----------------------------------|------------------|------------------------|
| Customer:           | Hilong Oil Services & Engineering | Date Of Service: | 08-08-2024             |
| Type Of Inspection: | CAT IV INSPECTION                 | Report No:       | ATS-08-24-4132-SJE-023 |
| Rig & Rig Number:   | RIG-100                           | Specification:   | API RP 8B              |



ABERDEEN Technical Services Would Like to Thank You for Giving Us the Opportunity to Work With Your Honorable Company

|                  |            |           |            |
|------------------|------------|-----------|------------|
| Inspection Date: | 08-08-2024 | Due Date: | 07-08-2025 |
|------------------|------------|-----------|------------|

|            |             |             |             |
|------------|-------------|-------------|-------------|
| Inspector: | Aram Dlawar | Supervisor: | Hasan Orman |
| OEM:       |             |             |             |



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The Rig Was Equipped with JIANGSU RUTONG PETRO-MACHINERY CO. Single Joint Elevator, with The Following Specification:

|                        |                                       |
|------------------------|---------------------------------------|
| Equipment:             | Single Joint Elevator, SJ 4 EU- 5 ton |
| SN:                    | 808109                                |
| Date of Manufacture:   | -                                     |
| Manufacturer/ Model:   | JIANGSU RUTONG PETRO-MACHINERY CO.    |
| Reference Standard:    | API RP 8B                             |
| Next Examination Date: | After 1 Year                          |

**Remarks:**

Detailed reports are attached detailing all readings and results in - 03 of 06 pages.

|            |             |             |             |
|------------|-------------|-------------|-------------|
| Inspector: | Aram Dlawar | Supervisor: | Hasan Omran |
| OEM:       |             |             |             |

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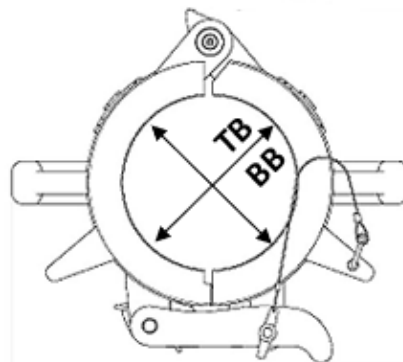
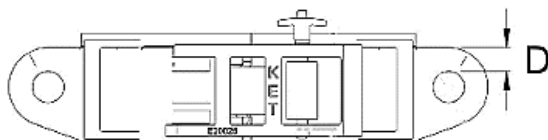
### PROCEDURE

- The Single Joint Elevator Has Been Inspected and Found Conformable to the Relevant Standard(s)
- The Rig was equipped with **JIANGSU RUTONG PETRO-MACHINERY CO. LTD** Single Joint Elevator.
- Single Joint Elevator Found Stripped Down / Disassembled for CAT IV Inspection.

### Action

### Result

|                                                                                                          |      |
|----------------------------------------------------------------------------------------------------------|------|
| • Visually check for the serial number and Identification                                                | Pass |
| • Dismantle the elevator as far as possible into single components                                       | Pass |
| • Prepare and clean the elevator body and accessories to the extent necessary for inspection.            | Pass |
| • Visually check for any damage, missing parts or cracks                                                 | Pass |
| • Visually check & MPI as per manufacture's recommendations                                              | Pass |
| • Visually check for damage, deformation or cracks on the hinge's Ears, handles, Critical areas & hinges | Pass |
| • Measure the wear of bores, and ear thickness as per manufacture's recommendations.                     | Pass |
| • Visually check after Reassemble the Elevator with new spring and spare parts.                          | Pass |
| • Repaint the Elevator                                                                                   | Pass |
| • Prepare and submit the inspection report.                                                              | Pass |

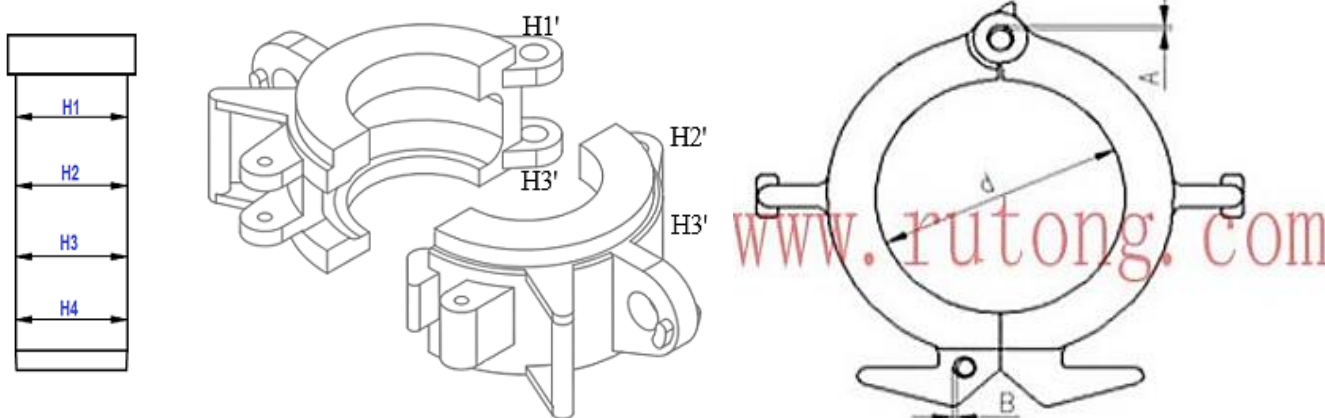


| OREINTATION | DESCRIPTION                                    | VALUES   | OEM VALUES       | RESULT   |
|-------------|------------------------------------------------|----------|------------------|----------|
| RIGHT       | The maximum allowable wear tolerance of (D)    | 20 mm    | 18.5 mm          | Accepted |
| LEFT        | The maximum allowable wear tolerance of (D)    | 20 mm    | 18.5 mm          | Accepted |
| TOP         | Maximum Allowable (Worn) Load Shoulder Bore TB | 110.6 mm | 111.12 mm<br>Max | Accepted |
| BOTTOM      | Maximum Allowable (Worn) Load Shoulder Bore BB | 110.4 mm | 111.12 mm<br>Max | Accepted |





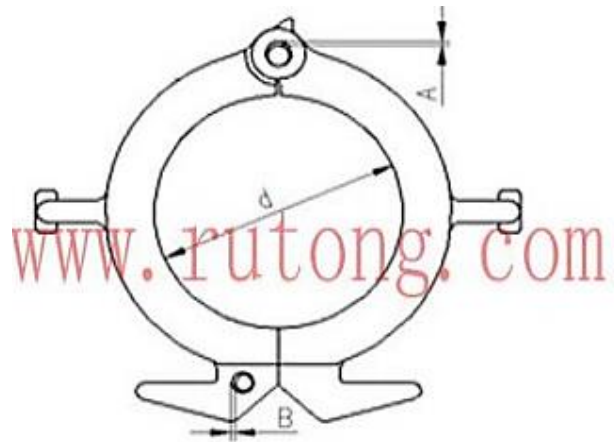
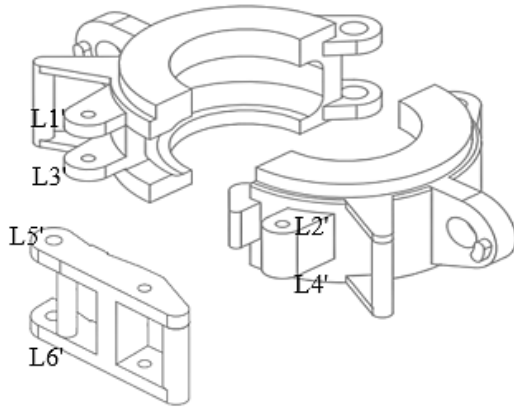
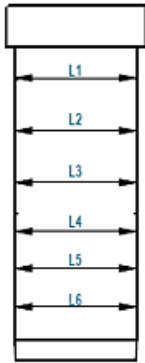
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| Measurement         | Nominal | Tolerance (A) | Actual Reading | Result   |
|---------------------|---------|---------------|----------------|----------|
| Hinge Pin OD (H1)   | 19.92   | 0.64          | 19.89          | Accepted |
| Hinge Pin OD (H2)   | 19.92   |               | 19.88          | Accepted |
| Hinge Pin OD (H3)   | 19.92   |               | 19.90          | Accepted |
| Hinge Pin OD (H4)   | 19.92   |               | 19.90          | Accepted |
| Hinge Hole ID (H1') | 20      |               | 20.05          | Accepted |
| Hinge Hole ID (H2') | 20      |               | 20.05          | Accepted |
| Hinge Hole ID (H3') | 20      |               | 20.04          | Accepted |
| Hinge Hole ID (H4') | 20      |               | 20.03          | Accepted |



|                     |                                   |                  |                        |
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| Measurement         | Nominal | Tolerance (B) | Actual Reading | Result   |
|---------------------|---------|---------------|----------------|----------|
| Latch Pin OD (L1)   | 14.86   | 0.64          | 14.80          | Accepted |
| Latch Pin OD (L2)   | 14.86   |               | 14.81          | Accepted |
| Latch Pin OD (L3)   | 14.86   |               | 14.80          | Accepted |
| Latch Pin OD (L4)   | 14.86   |               | 14.81          | Accepted |
| Latch Pin OD (L5)   | 14.86   |               | 14.80          | Accepted |
| Latch Pin OD (L6)   | 14.86   |               | 14.82          | Accepted |
| Latch Hole ID (L1') | 15.00   |               | 15.06          | Accepted |
| Latch Hole ID (L2') | 15.00   |               | 15.05          | Accepted |
| Latch Hole ID (L3') | 15.00   |               | 15.06          | Accepted |
| Latch Hole ID (L4') | 15.00   |               | 15.08          | Accepted |
| Latch Hole ID (L5') | 15.00   |               | 15.07          | Accepted |
| Latch Hole ID (L6') | 15.00   |               | 15.06          | Accepted |

\*\* Visual And MPI Was Carried out on the critical areas and load bearing components of the elevator and Found **Satisfactory for Further Use**.

\*\* CAT IV Inspection Was Carried Out on the Elevator and Found **Accepted**  
At The Time of Inspection

|            |             |             |             |
|------------|-------------|-------------|-------------|
| Inspector: | Aram Dlawar | Supervisor: | Hasan Omran |
| OEM:       |             |             |             |





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## Visual & Magnetic Particles Examination Report

|              |                                   |           |                 |             |                |
|--------------|-----------------------------------|-----------|-----------------|-------------|----------------|
| Client Name: | Hilong Oil Services & Engineering | Location: | HL-100/<br>R026 | Job Number: | ATS-08-24-4132 |
|--------------|-----------------------------------|-----------|-----------------|-------------|----------------|

|                      |            |                 |            |                 |                        |
|----------------------|------------|-----------------|------------|-----------------|------------------------|
| Date of Examination: | 08-08-2024 | Date of Report: | 08-08-2024 | Certificate No: | ATS-08-24-4132-SJE-023 |
|----------------------|------------|-----------------|------------|-----------------|------------------------|

| Serial Number | Description of the examined equipment | Result |
|---------------|---------------------------------------|--------|
| 808109        | Single Joint Elevator, SJ 4 EU- 5 ton | Pass   |
| S/N:          | -                                     |        |



### NDT Equipment Details

|                |                                 |                    |               |          |            |
|----------------|---------------------------------|--------------------|---------------|----------|------------|
| Standard       | API RP 8B – CAT IV & ASTM E 709 | Viewing Condition: | Colored Media | Method   | WET        |
| Yoke           | Ac yoke                         | Serial No:         | 201504044     | Due Date | 27-12-2024 |
| White Contrast | FLUXO: WCP-4                    | Batch No:          | L230523/1     | Due Date | 23-05-2028 |
| Black Ink      | FLUXO: Black magnetic ink-3     | Batch No:          | L230125/3     | Due Date | 25-1-2025  |

### NDT procedure

Visual and MPI carried out for the above description and found free of surface defects at the time of inspection

Identification of any part found to have a defect and a description of the defect: **None**

Particulars of any repair, renewal or alteration required to remedy the defect identified above: **None**

|                               |                    |                                   |
|-------------------------------|--------------------|-----------------------------------|
| ASNT Level II Inspector Name: | Signature & Stamp: | Date of Next Through Examination: |
| Aram Dlawar                   |                    | 07-08-2025                        |



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