

**AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED**

Basra, North Rumaila, Quality Control Yard – Iraq  
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Email: [OP@qualitycontrol-iraq.com](mailto:OP@qualitycontrol-iraq.com) / [hany.akafi@qualitycontrol-iraq.com](mailto:hany.akafi@qualitycontrol-iraq.com)



**30” SHEAVE BLOCK ASSEMBLY ANNUALLY INSPECTION CERTIFICATE**

|                           |   |                                 |                           |
|---------------------------|---|---------------------------------|---------------------------|
| <b>Customer:</b>          | <b>HALLIBURTON (WPS)</b>                | <b>Date of Inspection:</b>      | <b>08.AUG.2025</b>        |
| <b>Location:</b>          | <b>Burjesia Halliburton Basra -Iraq</b> | <b>Next Date of Inspection:</b> | <b>07.AUG.2026</b>        |
| <b>Job No.:</b>           | <b>08082025</b>                         | <b>Report No.:</b>              | <b>QC-WPS-25-0508/068</b> |
| <b>Working Load:</b>      | <b>30,000 LBS</b>                       | <b>SAP NO.</b>                  | <b>12978102</b>           |
| <b>Wire Rope Diameter</b> | <b>15/32”</b>                           | <b>SERIAL NO:</b>               | <b>SHEAVE-3960</b>        |

|                                     |   |
|-------------------------------------|---|
| <b>Type Of Inspection:</b>          | Visual & Dimension Checks & Magnetic Particle Inspection , Dye Penetrant Inspection |
| <b>Ref Standard:</b>                | API RP 9B / ASTM E709-21/ASTM E165-23   |
| <b>Halliburton Document number:</b> | D01982668 , D01026300   |

**30 INCH SHEAVE BLOCK ASSEMBLY INSPECTION PROCEDURE**

- Wash thoroughly to remove all of the dirt and mud.
- Does not direct high pressure spray onto the face of bearings to prevent water displacing of the grease.
- Make a visual inspection, check for no evidence of corrosion, cracks or fractures on the wheel frame that undermine its operational capabilities or safety. Inspect the cable groove all around the sheave wheel.
- Using the Sheave Gauge and using as reference the Sheave Groove Inspection guidelines D01026300 determine if the groove is in specifications. If worn too much, it will begin to wear the cable unevenly. The sheave should be changed if this is the case.
- Check that the nameplate is intact and legible
- Rotate sheave freely and crack for wobble. Any excessive play could indicate a worn or damaged bearing. This must be repaired by replacing the sheave wheel, bearing assembly or the shaft.
- Check The Operation Of The Guard Door.
- Rotate Clevis Swivel To Ensure Operation.
- Check The Bolts And Frame For Damage .
- Mount – Clevis – Finished- sheave – 30 Inch performed Dye penetrant / Magnetic Particle Inspection. Replace if it fails the dye penetrant / MPI Testing.
- Visually Inspect Locknut, Clevis, Shaft, 30 IN Sheave for any cracks or corrosion or ware.
- Visually inspect shaft- Clevis- Threaded–Sheave–30 IN for cracks, corrosion or bending

|  |                               |   |   |
|--|-------------------------------|---|---|
| <b>Name of Inspector:</b>                                | <b>Signature &amp; Stamp:</b> | <b>Name of person authenticating this report:</b> | <b>Customer Name , Signature</b>                          |
| M.SHAHZAD AHMED  |                               | HANY ALI  | <b>ALI Talib HB48903</b><br>Date: 08-08-2025<br>Signature |
| <b>QUALIFICATION:</b><br>ASNT LEVEL II: MT & PT& VT & UT |                               |   |   |



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| <b>Wire Rope Diameter</b> | <b>15/32”</b>                           | <b>SERIAL NO:</b>               | <b>SHEAVE-3960</b>        |

**Depth Measurements of 30 Inch Sheaves Wheel**

| WIRE ROPE DIA:    | ACTUAL GROOVE DEPT. | MINI ALLOWABLE GROOVE DEPT | Result     |
|-------------------|---------------------|----------------------------|------------|
| 15/32” - 11.90 mm | 46.43 mm            | 15.827 mm                  | ACCEPTABLE |

**Radius Measurements of 30 Inch Sheaves Wheel**

| WIRE ROPE DIA:    | ACTUAL GROOVE RADIUS. | GROOVE RADIUS MINI WORN. | GROOVE RADIUS MINI NEW. | GROOVE RADIUS MAXI. | Result     |
|-------------------|-----------------------|--------------------------|-------------------------|---------------------|------------|
| 15/32” - 11.90 mm | 6.442 mm              | 6.09 mm                  | 6.307 mm                | 6.545 mm            | ACCEPTABLE |

**30” SHEAVE PICTORIAL**



**INSPECTION RESULT**

| INSPECTION RESULT  | Result     |
|--|------------|
| 1-Visual & Dimension Checks ( found free from deforms, cracks, Wear, corrosion & mechanical damage ) | ACCEPTABLE |
| 2-Dye Penetrant Inspection ( Welds & forgn areas free from cracks and other defects )                | ACCEPTABLE |

**Equipment & Technical Details**

| Equipment                     | Serial No. | CAL DUE DATE          | Calibration   | MANUFACTURE            | BATCH NO | EXPIRE DATE           |        |
|-------------------------------|------------|-----------------------|---------------|------------------------|----------|-----------------------|--------|
| Digital Lux Meter WHITE LIGHT | 2722003    | 9-Oct-25              | Red Penetrant | Magnaflux              | 230606   | June,2026             |        |
| COMPARATOR BLOCK              | 11223      | 8-Oct-25              |               | Magnaflux              | 230608   | June,2026             |        |
| INFRARED THERMOMETER          | 201704125  | 7-Oct-25              | Developer     | Magnaflux              | 230608   | June,2026             |        |
| PENETRANT DWELL TIME:         | 30 minutes | DEVELOPER DWELL TIME: | 15 minutes    | WHITE LIGHT INTENSITY: | 3580 lux | TEST PART TEMPERATURE | 104 °F |

| Name of Inspector:  | Signature & Stamp: | Name of person authenticating this report: | Customer Name , Signature                                |
|---|--------------------|--|--|
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**30” SHEAVE BLOCK ASSEMBLY MPI PICTORIAL**



**INSPECTION RESULT**

|  | <b>Result</b> |
|--|---------------|
| 1-Visual Inspection ( found free from deforms, cracks, Wear, corrosion & mechanical damage ) | ACCEPTABLE    |
| 2-Magnetic Particle Inspection ( Welds & forgn areas free from cracks and other defects )    | ACCEPTABLE    |

**Equipment & Technical Details**

| Equipment                     | Serial No. | CAL DUE DATE | Expire Date | Material               | MANUFACTURE | BATCH NO | EXPIRE DATE |
|-------------------------------|------------|--------------|-------------|------------------------|-------------|----------|-------------|
| Digital Lux Meter WHITE LIGHT | 2722003    | 9-Oct-25     |             | White Contrast WCP-2   | Magnaflux   | 230408   | APRIL,2026  |
| AC YOKE                       | 201504052  | 7-Oct-25     |             | Black Magnetic Ink 7HF | Magnaflux   | 230604   | JUNE, 2026  |

|  |                               |   |  |
|--|-------------------------------|---|--|
| <b>Name of Inspector:</b>                                | <b>Signature &amp; Stamp:</b> | <b>Name of person authenticating this report:</b> | <b>Customer Name , Signature</b>                         |
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