

**INSPECTION SERVICES AND ENGINEERING CERTIFICATION**
**AB: 780.870.1547 SK: 306.250.9294 Head Office Mail: P.O. Box 10524 Lloydminster, AB T9V 3A6**
**INSPECTION REPORT**

|                              |                          |                                     |            |                          |                    |                          |              |                          |                                     |                          |     |                                     |      |                                     |
|------------------------------|--------------------------|-------------------------------------|------------|--------------------------|--------------------|--------------------------|--------------|--------------------------|-------------------------------------|--------------------------|-----|-------------------------------------|------|-------------------------------------|
| <b>EQUIPMENT LOCATION:</b>   | Lloydminster, Alberta    |                                     |            | <b>NDT PROCEDURE#:</b>   |                    |                          |              | INSP-001                 |                                     |                          |     |                                     |      |                                     |
| <b>EXAMINATION COVERAGE:</b> | <i>RANDOM:</i>           | <input type="checkbox"/>            | 5%         | <input type="checkbox"/> | 10%                | <input type="checkbox"/> | 25%          | <input type="checkbox"/> | 50%                                 | <input type="checkbox"/> | 75% | <input type="checkbox"/>            | 100% | <input checked="" type="checkbox"/> |
| <b>ACCEPTANCE CRITERIA:</b>  | CSA W59                  | <input checked="" type="checkbox"/> | ISO 9927-1 |                          | CAODC RP           |                          |              |                          | OTHER:                              |                          |     |                                     |      |                                     |
| <b>INSPECTION METHOD:</b>    | VT                       | <input checked="" type="checkbox"/> | UT         | <input type="checkbox"/> | MT WET FLOURESCENT |                          | MT WET BLACK |                          | <input checked="" type="checkbox"/> | MT DRY RED               |     | <input checked="" type="checkbox"/> |      |                                     |
| <b>EQUIPMENT INFO:</b>       | BLACK LIGHT MAKE - INOVA |                                     |            | LIGHT METER # 1822158    |                    |                          |              | MAG COIL # RC1-30120121  |                                     |                          |     |                                     |      |                                     |

|                   |                           |                       |        |
|-------------------|---------------------------|-----------------------|--------|
| <b>CLIENT:</b>    | K&S Power Tongs           | <b>UNIT/RIG:</b>      | KS911  |
| <b>EQUIPMENT:</b> | Side Door Casing Elevator | <b>MAKE/MODEL:</b>    | 9 5/8" |
| <b>RATING:</b>    | 150 TON                   | <b>SERIAL NUMBER:</b> | 48546  |


**INSPECTION RESULTS**

|                    |                                     |                  |                          |                            |                   |
|--------------------|-------------------------------------|------------------|--------------------------|----------------------------|-------------------|
| <b>ACCEPTABLE:</b> | <input checked="" type="checkbox"/> | <b>REJECTED:</b> | <input type="checkbox"/> | <b>DATE OF INSPECTION:</b> | NOVEMBER 25, 2018 |
| <b>TECHNICIAN:</b> |                                     |                  | <b>COMMENTS:</b>         |                            |                   |
|                    |                                     |                  | <b>REPAIRS:</b>          |                            |                   |
|                    |                                     |                  |                          |                            |                   |

**QUALITY ASSURED INSPECTIONS FOR QUALITY ASSURED BUSINESSES**

"Except as provided herein, Index NDT Inspections Ltd. makes no warranty, express or implied with respect to the mechanical or other conditions of the equipment inspected by us. Index NDT Inspections Ltd. shall only be responsible in the event of damage resulting directly from their inspection, and in no event, shall the liability of Index NDT Inspections Ltd. exceed the cost of inspection." Our organization assumes only the responsibility of locating defects in the inspected components and welds made accessible at the time of inspection. All equipment should be cleaned to allow access to all welds and critical components. It is of the utmost importance that the unit's owner be aware that excessive coating over 10 mils can severely mask the detection of discontinuities while utilizing standard inspection techniques. We are not responsible for the mechanical or other conditions assembled condition except at customer's request.

HN-INCLUSION P-POROSITY IUC-INTERNAL UNDERCUT EUC-EXTERNAL UNDERCUT S-SLAG C-CRATOR IP-INCOMPLETE PENETRATION NF-NON-FUSION CR-CRACK PH-PIN HOLE D-DISCONTINUITY



# CERTIFICATE OF COMPLIANCE

|                         |                           |
|-------------------------|---------------------------|
| <b>CLIENT:</b>          | K & S Power Tongs         |
| <b>UNIT:</b>            | KS911                     |
| <b>EQUIPMENT:</b>       | Side Door Casing Elevator |
| <b>MANUFACTURER:</b>    | AOT                       |
| <b>MODEL:</b>           | 9 5/8" Side Door          |
| <b>RATING:</b>          | 150 Ton                   |
| <b>SERIAL #:</b>        | 48546                     |
| <b>LOCATION:</b>        | Lloydminster, AB          |
| <b>INSPECTION DATE:</b> | November 25, 2018         |

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## CONDITIONS OF USE:

1. Identification and rating to be permanently affixed in a visible location
2. Visually inspect equipment prior to each use
3. Maintain equipment in good condition

## CERTIFICATION:

Index NDT Inspections Limited performed a VISUAL AND MAGNETIC PARTICLE inspection on the above-mentioned OVERHEAD EQUIPMENT after it was cleaned and disassembled. All observations have been recorded and are disclosed in the Index NDT Inspections Ltd. report for the OVERHEAD EQUIPMENT with the serial #48546. The scope of this certificate is limited to the inspection of item's structural condition at the time of inspection and does not imply a review of the equipment's design or it's associated capacity rating. The capacity noted above reflects the original equipment manufacturer's maximum capacity rating and may be reduced by operating conditions, regulatory requirements and the use of auxiliary equipment that has a lower capacity rating.

The undersigned Engineer reviewed all the inspection reports and has issued this certificate after all repairs (if any) were completed. In the undersigned engineer's opinion, the OVERHEAD EQUIPMENT #48546 may be returned to service and operated within the original manufacturer's specifications. The equipment owner must provide the OEM's operating instructions with the equipment and maintain the OEM's identification and capacity markings. If OEM cannot be obtained, certified replacements must be obtained.

## VALIDATION:

This certification covers the above-mentioned unit for a period of 500 operating days from the "inspection date" listed above, as per CAODC Recommended Practice 2.0, or until the unit is damaged by handling, transportation or operation.

Reviewed By:

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