



# INSPECTIONS & ENGINEERING

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Phone: 780-955-9688 Fax: 780-955-9389  
NON-DESTRUCTIVE EXAMINATION & ENGINEERING  
24 Hour Service

## EQUIPMENT CERTIFICATION

January 28, 2015

*Issued to:*

Edcon Power Tongs and Oilfield Services Ltd.  
Box 209  
Lac La Biche, Alberta  
T0A 2C0

<b>Equipment:</b> .....	<b>Web Wilson Side Door Casing Elevator</b>
<b>Model:</b> .....	<b>10 3/4" x 90°, H-50 Ton, c/w Safety Latch Pin</b>
<b>Stamp:</b> .....	<b>T&amp;T 45538</b>
<b>Equipment #:</b> .....	<b>1012</b>
<b>T &amp; T Field Report #:</b> .....	<b>45538</b>
<b>Hi Quality Machine &amp; Oilfield</b>	<b>W.O.# 6616</b>
<b>Engineering File #:</b> .....	<b>141222612</b>

The above-mentioned equipment required a Level IV inspection, repairs where needed and certification for service.

T & T Inspections & Engineering Ltd. conducted the magnetic particle inspection and visual examination. Recommended repair procedures were given to Hi Quality Machine & Oilfield Repair Ltd.

Based on the final inspection and review of critical dimensions, components, and load test results, it is our opinion that the equipment is a safe operating unit and may be returned to service within the manufacturer's original ratings and specifications.

This certification is valid for a period of 500 operating days, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the unit has been damaged either as a result of operation, transportation or handling.

**PERMIT TO PRACTICE**  
T & T INSPECTIONS & ENGINEERING LTD.  
Signature G. Sordin  
Date January 28, 2015  
**PERMIT NUMBER: P 6501**  
The Association of Professional  
Engineers and Geoscientists of Alberta



*January 28, 2015*

<b>Report # : NDT15370-XEB11</b>	<b>Asset ID : 45538 (Tool# 1012)</b>
Client : Edcon Power Tongs & Oilfield - Lac La Biche	Branch : Lac La Biche
Inspection Date : Dec 07, 2016	Client WO :
Inspection Location : Lac La Biche	Client PO : JAY
Client Ref :	

Red Flame Industries Testing Equipment				
Yoke				
Make	Model	Serial#	Calibration	Expires Date
Magnaflux	Y-1	936	Jan 27, 2016	Jan 27, 2017

**Magnetic Particle Examination Information and Results**

Material Type: Carbon Steel      Technique Used: AC Dry Powder - Continuous  
 Temperature: 0° to 20°C      Procedure: MT-1 Rev. 1.3  
 Surface Preparation: Painted      In accordance with codes: ASME V Article 7, ASME B30.20  
 Acceptance Criteria: Client Specification - No Cracks

**Results**

**Magnetic Particle Examination Conducted On - Casing Elevator - 10.750" - 273.050MM  
 50 Ton - 45538 (Tool# 1012)**

Visible Dry Particle Examination Conducted With AC Powered Yoke.  
 Multidirectional Field Achieved By Repositioning Yoke At Right Angles In Each Area Examined.  
 Powder Applied With Hand Blower. Batch Number 13M071 Powder Removal By Light Exhalation.  
 Minimum White Light At Examination Surface: 1000 Lux. Particle Size 2-6 μm.  
 Particle Color: Grey.

Examination Conducted On All Accessible Surface Area On Fully Assembled 90 Degree Casing Elevator, Tool # 1012, As Requested.

Make: Web Wilson  
 Model: LAC H-50  
 Size: 10.750" - 273.050MM  
 Capacity: 50 Ton  
 Latch: Side Door DBL  
 Serial Number: 45538

MPI Results: No Relevant Indications Were Detected At The Time Of Examination.

Please See Attached Photo For More Information.

**Red Flame Industries Personnel Information**

Technician: Emily Borden

Assistant: Matthew Paterson

SNT-MT2  
 SNT-PT2  
 SNT-UT2

Signature: