

February 18, 2010

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

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### Equipment Certification

<b>Rig No.:</b>	N/A
<b>Equipment:</b>	<b>BVM Casing Elevator</b>
<b>Model:</b>	<b>4 1/2" - 90° - 100 Ton</b>
<b>Customer P.O.:</b>	N/A
<b>Serial No.:</b>	<b>EQ#476</b>
<b>Inspection Report No.:</b>	<b>H-24203</b>
<b>Alco Sales/Engineering No.:</b>	<b>2086-E</b>
<b>APEGGA Permit to Practice No.:</b>	<b>P10702</b>
<b>Alco Shop Work Order # :</b>	<b>1369</b>

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The above-mentioned elevator required a Level IV inspection (as per Canadian Association of Oilwell Drilling Contractors, R.P. 2.0), applicable repairs, and certification for service.

A magnetic particle (MT) inspection was conducted on January 12, 2010, after the elevator was completely disassembled and sandblasted.

Repair procedures were developed based on the MT inspection report as well as a thorough visual examination performed by qualified personnel with Alco Inc.

Based on the final inspection on February 18, 2010, after load testing, it is our opinion that the elevator is a safe operating unit and may be returned to service within the manufacturer's original rating and specification.

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 elevator has been damaged either as a result of operation, transportation or handling.



Report # : NDT17716-TS1064	Asset ID : 03512 (Tool# 476)
Client : Edcon Power Tongs & Oilfield - Lac La Biche	Branch : Lac La Biche
Inspection Date : Oct 23, 2017	Client WO :
Inspection Location : Lac La Biche	Client PO : Jay
Client Ref : MPI Inspection	

### Red Flame Industries Testing Equipment

Yoke				
Make	Model	Serial#	Calibration	Expires Date
Magnaflux	Y-1	762	Feb 16, 2017	Feb 16, 2018

### Magnetic Particle Examination Information and Results

Material Type: Carbon Steel  
 Temperature: 0° to 20°C  
 Surface Preparation: Painted  
 Acceptance Criteria: Red Flame Engineering Acceptance

Technique Used: AC Dry Powder - Continuous  
 Procedure: MT-1 Rev. 8.3  
 In accordance with codes: ASME V Article 7, ASME B30.20

#### Results

**Magnetic Particle Examination Conducted On - Casing Elevator - 4.500" - 114.300MM  
 100 Ton - 03512 (Tool# 476)**

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 16F104 Powder Removal By Light Exhalation.  
 Minimum White Light At Examination Surface: 1000 Lux. Particle Size 2-6 im. Particle Color: YELLOW.

Examination Conducted On 4.5" Elevator; All Accessible Surfaces, Transition Areas And Lift Points On Fully Assembled Painted Elevator As Requested.

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

See Photo.

### Red Flame Industries Personnel Information

Technician: Tom Schulz  
 SNT-MT2  
 SNT-UT2  
 SNT-PT2  
 CGSB-MT2 - 17965

Assistant:

Signature:





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Report Attachments