

January 28, 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>	<b>N/A</b>
<b>Equipment:</b>	<b>BVM Casing Elevator</b>
<b>Model:</b>	<b>4 1/2" - 90° - 100 Ton</b>
<b>Customer P.O.:</b>	<b>N/A</b>
<b>Serial No.:</b>	<b>EQ#477</b>
<b>Inspection Report No.:</b>	<b>H-24188</b>
<b>Alco Sales/Engineering No.:</b>	<b>2095-E</b>
<b>APEGGA Permit to Practice No.:</b>	<b>P10702</b>
<b>Alco Shop Work Order # :</b>	<b>1376</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 07, 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 January 28, 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-TS1130	Asset ID : 03513 (Tool# 477)
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	Technique Used: AC Dry Powder - Continuous
Temperature: 0° to 20°C	Procedure: MT-1 Rev. 8.3
Surface Preparation: Painted	In accordance with codes: ASME V Article 7, ASME B30.20
Acceptance Criteria: Red Flame Engineering Acceptance	

**Results**

**Magnetic Particle Examination Conducted On - Casing Elevator - 4.500" - 114.300MM  
100 Ton - 03513 (Tool# 477)**

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