



- ALCO MACHINE WORKS
- ALCO CNC INDUSTRIES
- ALCO HYDRA OIL TOOL
- ALCO INDUSTRIAL EQUIPMENT
- ALCO FLOW CONTROL
- ALCO INDUSTRIAL

6925 - 104 Street  
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February 15, 2011

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>	AOT Side Door Casing Elevator
<b>Model:</b>	9 5/8" - 90° - 65 Ton
<b>Customer P.O.:</b>	N/A
<b>Serial No.:</b>	EQ# 959
<b>Inspection Report No.:</b>	H-25797
<b>Alco Sales/Engineering No.:</b>	10321-E
<b>APEGGA Permit to Practice No.:</b>	P10702
<b>Alco Shop Work Order # :</b>	8693

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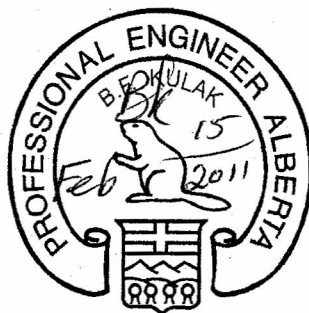
The above-mentioned elevator required a Level IV inspection (as per Canadian Association of Oilwell Drilling Contractors, R.P. 2.0), applicable repairs, and certification for service.

A magnetic particle (MT) inspection was conducted on December 23, 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 15, 2011, 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-TS1073	Asset ID : EQ#959 (Tool# 959)
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 - 9.625" - 244.475MM  
65 Ton - EQ#959 (Tool# 959)**

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 9" 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:



959.jpg

Report Attachments