

☐ ALCO MACHINE WORKS
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ALCO FLOW CONTROL

6925 - 104 Street Edmonton, Alberta

ALCO HYDRA OIL TOOL

ALCO INDUSTRIAL

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ALCO INDUSTRIAL EQUIPMENT

February 18, 2010

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

# **Equipment Certification**

Rig No .:

Model:

N/A

Equipment:

**AOT Casing Elevator** 

4 1/2" - 90° - 100 Ton

Customer P.O.:

N/A EQ#466

Serial No.:

H-24219

Inspection Report No.: Alco Sales/Engineering No.:

2166-E

APEGGA Permit to Practice No.:

P10702

Alco Shop Work Order #:

1429

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 13, 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.

## **Red Flame Industries**



Report # : NDT17716-TS1067 Asset ID : 23720 (Tool# 466)

Client : Edcon Power Tongs & Oilfield - Lac La Biche

Branch: Lac La Biche

Inspection Date: Oct 23, 2017
Inspection Location: Lac La Biche

Client PO: Jay

Client WO:

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 - 23720 (Tool# 466)

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

Assistant:

SNT-UT2 SNT-PT2

SNT-MT2

CGSB-MT2 - 17965

Signature:

**Red Flame Industries** 

6736-71 Street, Red Deer Alberta, Canada T4P 3Y7 Phone: (403) 343-2012 Toll Free: (888) 846-8827 Ignite the possibilities

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