



# INSPECTIONS & ENGINEERING

609 - 21 Avenue Nisku, Alberta T9E 7X9  
Phone: 780-955-9688 Fax: 780-955-9389  
NON-DESTRUCTIVE EXAMINATION & ENGINEERING  
24 Hour Service

## EQUIPMENT CERTIFICATION

January 20, 2010

Issued to:

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

Equipment: ..... King Oil Tool Casing Elevator  
Model: ..... 3-1/2"-90°, 65-Ton  
Stamped: ..... T&T 25573  
Equipment #: ..... 304  
(Elevator Horns Cut Off As Per Customer Request)  
T & T Field Report #: ..... 25573  
Hi Quality Machine & Oilfield W.O.# 572  
Engineering File #: ..... 091116511

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.

<b>PERMIT TO PRACTICE</b>
T & T INSPECTIONS & ENGINEERING LTD.
Signature <u>H. Gordon</u>
Date <u>January 20, 2010</u>
<b>PERMIT NUMBER: P 6501</b>
The Association of Professional Engineers, Geologists and Geophysicists of Alberta



January 20, 2010

<b>Report # : NDT17716-TS1150</b>	<b>Asset ID : TOOL #304 3" ELEVATOR</b>
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 - Elevator - TOOL #304 3" ELEVATOR

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 µm. Particle Color: YELLOW.

Examination Conducted On 3" 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