



# 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

October 15, 2009

*Issued to:*

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

Equipment: ..... Web Wilson Casing Elevator  
Model: ..... 5½"-90°, C 100-Ton  
Stamped: ..... T&T 36976  
Equipment #: ..... 543  
T & T Field Report #: ..... 36976  
Hi Quality Machine & Oilfield W.O.# 467  
Engineering File #: ..... 090816343

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.

### PERMIT TO PRACTICE

T & T INSPECTIONS & ENGINEERING LTD.

Signature

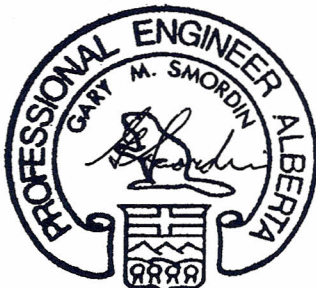
*G. Smordin*

Date

*October 15, 2009*

PERMIT NUMBER: P 6501

The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta



*October 15, 2009*

Report # : NDT17716-TS1198		Asset ID : TT 36976 (Tool# 543)	
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 - 5.500" - 139.700MM  
100 Ton - TT 36976 (Tool# 543)**

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  $\mu$ m. Particle Color: YELLOW.

Examination Conducted On 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**