



INSPECTIONS & ENGINEERING

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Phone: 780-955-9688 Fax: 780-955-9389
NON-DESTRUCTIVE EXAMINATION & ENGINEERING
24 Hour Service

EQUIPMENT CERTIFICATION

December 15, 2016

Issued to:

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

Equipment: BJ Casing Elevator
Model: 4½", TA100-Ton
Stamped: T&T 50058
Equipment #: 460
T & T Field Report #: 50058
Hi Quality Machine & Oilfield W.O.# 7922
Engineering File #: 161223287

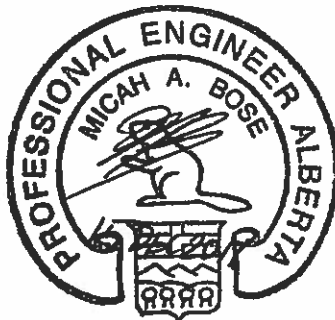
The above-mentioned equipment required a Level IV inspection, repairs where needed and certification for service.

T & T Inspections & Engineering conducted the magnetic particle inspection and visual examination. Recommended repair procedures were given to Hi Quality Machine & Oilfield Repair Ltd.

Based on the inspection and review of critical dimensions and components, 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
PERMIT NUMBER: P 6501
The Association of Professional Engineers,
Geoscientists of Alberta



| | |
|--|---|
| Report # : NDT17716-TS1129 | Asset ID : TOOL #460 4.5" ELEVATOR |
| 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 #460 4.5" 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 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