



## INSPECTION SERVICES AND ENGINEERING CERTIFICATION

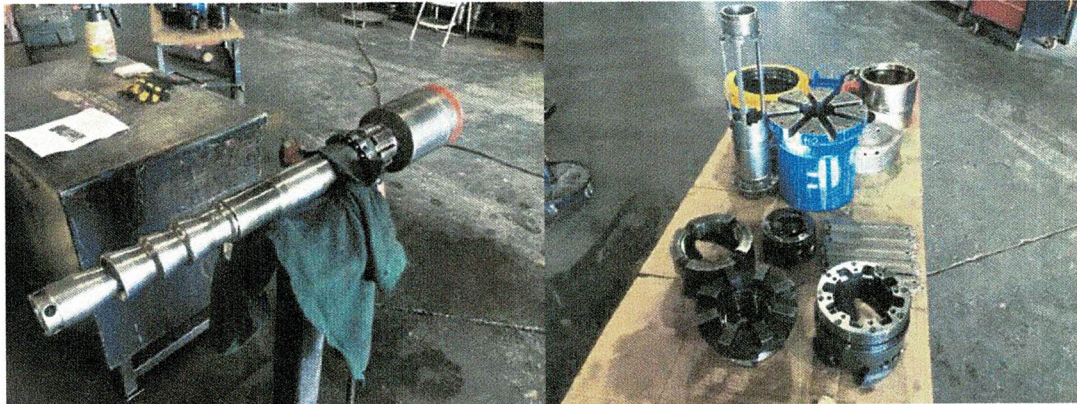
PHONE: 780.870.1547 EMAIL: operations@indexndt.ca Head Office Mail: P.O. Box 10524, Lloydminster, AB T9V 3A6

### INSPECTION REPORT

EQUIPMENT LOCATION:	Lloydminster, Alberta				NDT PROCEDURE#:	INSP-001			
EXAMINATION COVERAGE:	RANDOM:	5%	10%	25%	50%	75%	100%	X	
ACCEPTANCE CRITERIA:	CSA W59	ISO 9927-1		CAODC RP		OTHER:		X	
INSPECTION METHOD:	VT	X	UT	X	MT WET FLOURESCENT	X	MT WET BLACK		MT DRY RED
EQUIPMENT INFO:	BLACK LIGHT MAKE - INOVA			LIGHT METER # 1822158		MAG COIL # RC1-30120121			

CLIENT:	K&S Power Tongs	UNIT/REPORT#:	KSV004/IDX-3274
EQUIPMENT:	Volant Tool	MAKE/MODEL:	Volant CRTi2-4.5
RATING:	N/A	SERIAL NUMBER:	KSV004

### EQUIPMENT PHOTOS



### INSPECTION RESULTS

ACCEPTABLE:	X	REJECTED:		DATE OF INSPECTION:	April 13, 2023
TECHNICIAN:			PARTS:		
			Serial#:		
			Mandrel	82304-03-4437A01-08	
			Cage	81325-4402A12-11	
			Upper Cam	81208-4498A04-08	
			Lower Cam	81221-4437A05-03	
			Cam Latch	81212-4437A06-01	
			Cam Int.	80942-4498A03-12	
			Die - 5.5(14-17 lbs.)	80980-01-4488A01-15	
			Die - 5.5(14-17 lbs.)	80980-01-4488A01-11	
			Die - 5.5(14-17 lbs.)	80980-01-4488A01-12	
			Die - 5.5(14-17 lbs.)	80980-01-4488A01-14	
			Die - 5.5(14-17 lbs.)	80980-01-4488A01-13	
			MANDREL THICKNESS: 0.880" / 0.882" / 0.881" / 0.881" / 0.883"		
			COMMENTS: NA		

### QUALITY ASSURED INSPECTIONS FOR QUALITY ASSURED BUSINESSES

"Except as provided herein, Index NDT Inspections Ltd. makes no warranty, express or implied with respect to the mechanical or other conditions of the equipment inspected by us. Index NDT Inspections Ltd. shall only be responsible in the event of damage resulting directly from their inspection, and in no event, shall the liability of Index NDT Inspections Ltd. exceed the cost of inspection." Our organization assumes only the responsibility of locating defects in the inspected components and welds made accessible at the time of inspection. All equipment should be cleaned to allow access to all welds and critical components. It is of the utmost importance that the unit's owner be aware that excessive coating over 10 mils can severely mask the detection of discontinuities while utilizing standard inspection techniques. We are not responsible for the mechanical or other conditions assembled condition except at customer's request.

INCLUSION P-POROSITY IUC-INTERNAL UNDERCUT EUC-EXTERNAL UNDERCUT S-SLAG C-CRACK IP-INCOMPLETE PENETRATION NF-NON-FUSION CR-CRACK PH-PIN HOLE D-DISCONTINUITY



# REES N.D.T. INSPECTION SERVICES 2008 LTD.



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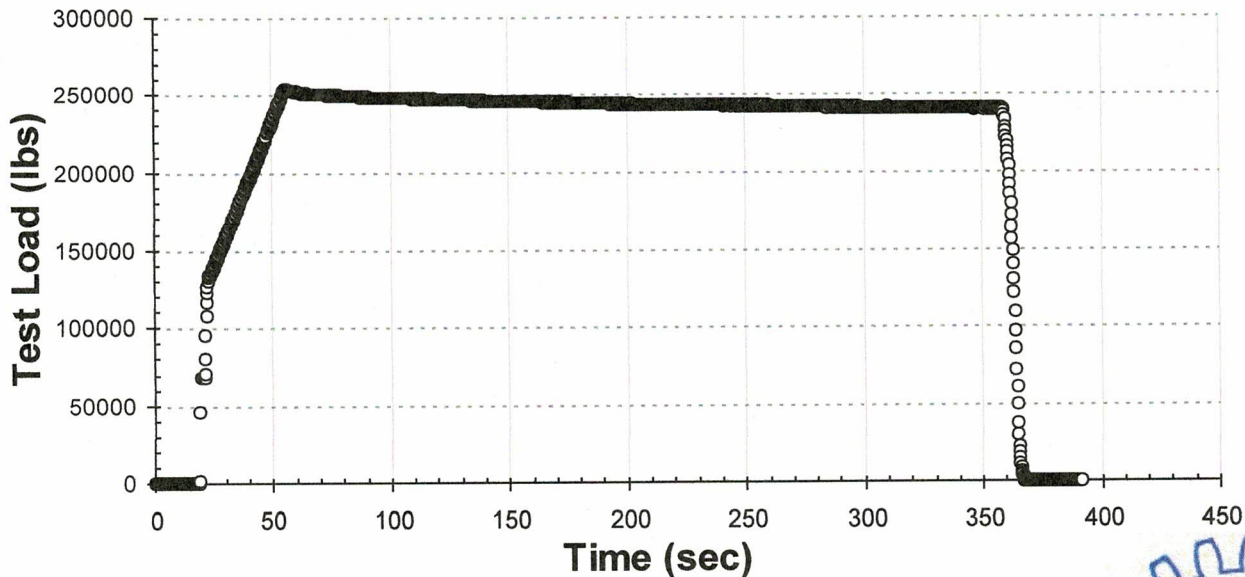
## LOAD TEST CERTIFICATE

**Owner** K & S Power Tongs  
**Address** 3614 63 Avenue Close  
Lloydminster AB T9V 2W1

**Date** 23-Mar-20  
**Workorder #** 186052  
**Purchase Order#** [REDACTED]

<b>Contact Name:</b>	Chris	<b>Phone #:</b>	
<b>Item:</b>	CRT Mandrel	<b>Location:</b>	Rees NDT Shop, Grande Prairie
<b>Make:</b>	Volant	<b>Model:</b>	CRTI2-4.5
<b>Serial Number:</b>	82304-03-4437A01-08	<b>Unit:</b>	NA <i>KSV004</i>
<b>Capacity:</b>		120 ton	

<b>Proof Load Test</b> 240000 lbs	<b>Test Date</b> 23-Mar-20	<b>Required Duration (sec)</b> 300		
<b>Test Method: Proof</b> 1.00	<b>Peak Load</b> 254358 lbs	<b>Passed</b> <input checked="" type="checkbox"/>		
<b>Test Equipment:</b>	<b>Make:</b>	<b>Model:</b>	<b>Serial Number:</b>	<b>Capacity:</b>
Testing Frame	Volker Ries	525 ton	VR-01	525 ton
Pressure Gauge	Rosemount	3501	-	(0-5000) psi
Data Logger	ACR Systems	SRP-7-32K 0-25MA	96674	(0-25 mA)



Inspected By: K. Gejdos Millwright (J-09-31585) Machinist (J-11-16754) J. Ibarbia

Workorder





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**INSPECTION DATE:** 23-Mar-20

**CLIENT:** K & S Power Tongs  
**ADDRESS:** 3614 63 Avenue Close  
Lloydminster AB T9V 2W1

**RECERTIFICATION DUE:** 23-Mar-2025

**REES NDT PO NUMBER:** R58555

**CLIENT PO NUMBER:**

**REES NDT WO NUMBER:** 186052

## INSPECTION CERTIFICATE

**CERTIFICATION OF:** CRT Mandrel

**MAKE:** Volant

**MODEL:** CRTi2-4.5

**SERIAL NUMBER:** 82304-03-4437A01-08

**UNIT NUMBER:** NA

**CAPACITY:** 120 ton

**OWNER:** K & S Power Tongs

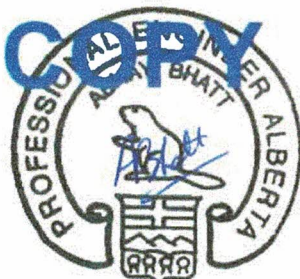
**REPAIRS/MECHANICAL COMPLETED BY:** NA

Rees NDT Inspection Services 2008 Ltd. performed a VISUAL AND NON-DESTRUCTIVE TESTING inspection on the above mentioned CRT MANDREL. All observations have been recorded and are disclosed in the complete documentation for Rees NDT Work Order #186052. The scope of this certificate is limited to the inspection of the item's structural condition at the time of inspection and does not imply a review of the equipment's design or its associated capacity rating. The capacity noted above reflects the original equipment manufacturer's maximum capacity rating and may be reduced by operating conditions, regulatory requirements and the use of auxiliary equipment that has a lower capacity rating.

The undersigned Engineer reviewed all the inspection reports and has issued this certificate after all required repairs (if any) were completed. In the undersigned Engineer's opinion, the CRT MANDREL may be returned to service and is safe to use within the original manufacturer's specifications. The equipment owner is obliged to supply the OEM's operating instructions with the equipment and maintain the OEM's identification and capacity markings. If OEM information cannot be obtained, certified replacements must be obtained from a Professional Engineer.

This certification covers the above mentioned unit for a period of 5 YEARS AS PER API-8C from the date of inspection, or until the unit is damaged by handling, transportation or operation.

Reviewed  
By:



25-Mar-2020

<b>PERMIT TO PRACTICE</b>	
REES NDT ENGINEERING LTD.	
Signature	<i>ABhatt</i>
Date	25-Mar-2020
<b>PERMIT NUMBER: P 11509</b>	
The Association of Professional Engineers and Geoscientists of Alberta	

<b>DELAYED USE</b>	
Date of 1st Use:	<i>Aug 4, 2020</i>
Job #:	<i>23279</i>
Signed By:	<i>[Signature]</i>

Inspected By: K. Gejdos Millwright (J-09-31585) Machinist (J-11-16754) J. Ibarbia

Non-destructive Testing · Wall Thickness Testing · Hardness Testing · Crane & Picker Certification · Drilling Rig Certification