

INSPECTION SERVICES AND ENGINEERING CERTIFICATION

PHONE: 780.870.1547 EMAIL: operations@indexndt.ca Head Office Mail: P.O. Box 13137, Lloydminster, AB T9V 2J4

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#:	KSV008/IDX-9589
EQUIPMENT:	Volant Tool	MAKE/MODEL:	Volant CRTi2-4.5
RATING:	N/A	SERIAL NUMBER:	KSV008

EQUIPMENT PHOTOS



INSPECTION RESULTS

ACCEPTABLE:	X	REJECTED:		DATE OF INSPECTION:	April 21, 2026
TECHNICIAN:			COMMENTS:		
			Part: Mandrel Cage Upper Cam Lower Cam Cam Latch Cam Int Die - Die - Die - Die - Die - Die -		
			Serial#: 82304-03-4437A01-04 81325-4435A17-10 81208-3J9258-01 81221-4437A05-11 81212-4437A06-08 80942-4437A03-11 80980-01-4488001-13 80980-01-3111581-16 80980-01-4488A01-15 80980-01-3111581-22 80980-01-4488A01-11		
			Material Thickness: 0.881/ 0.879/ 0.876/ 0.879/ 0.871		
			REPAIRS:		

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-CRATOR IP-INCOMPLETE PENETRATION NF-NON-FUSION CR-CRACK PH-PIN HOLE D-DISCONTINUITY



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



15612-89 Street
Grande Prairie, AB T8V 2N8

Grande Prairie
(780) 539-3594
(780) 532-8047 (Fax)

Dispatch
1-888-540-3594
www.reesndt.com

Vegreville
(780) 603-4887
Email: gcoers@reesndt.com

INSPECTION DATE: 30-Mar-22

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

REES NDT PO NUMBER: R68180
CLIENT PO NUMBER: KSV008
REES NDT WO NUMBER: 197569

INSPECTION CERTIFICATE

CERTIFICATION OF: CRT Mandrel
MAKE: Volant
MODEL: CRTi2-4.5
SERIAL NUMBER: 82304-03-4437A01-04
UNIT NUMBER: NA
CAPACITY: 120 ton
OWNER: K & S Power Tongs

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 #197569. 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-8B from the date of inspection, or until the unit is damaged by handling, transportation or operation.

Reviewed By:



12-Apr-2022

PERMIT TO PRACTICE	
REES NDT ENGINEERING LTD.	
Signature	<u>A. Bhatt</u>
Date	<u>12-Apr-2022</u>
PERMIT NUMBER: P 11509	
The Association of Professional Engineers and Geoscientists of Alberta	



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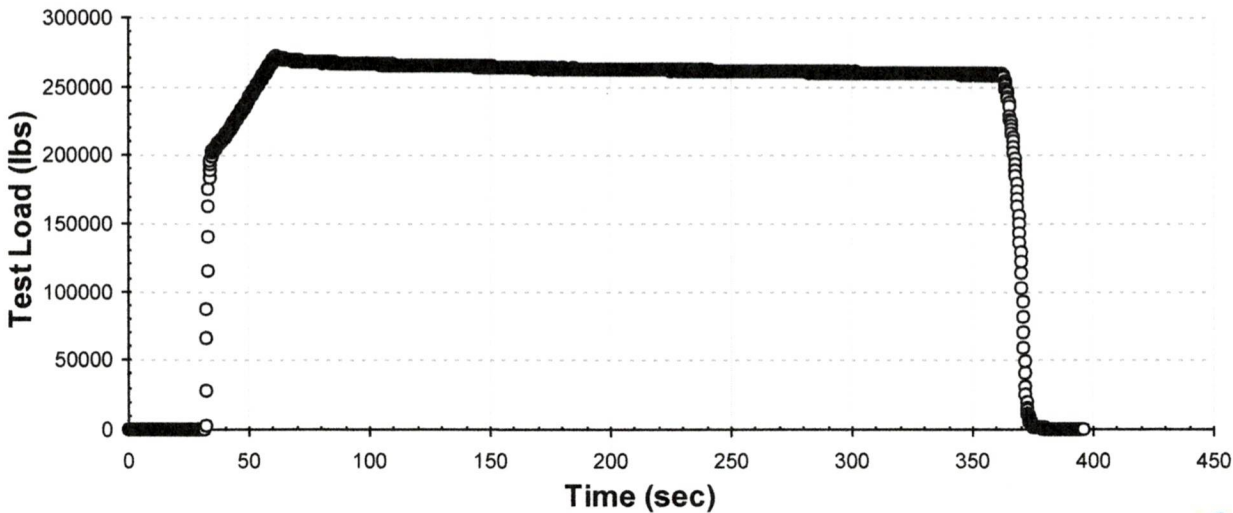
LOAD TEST CERTIFICATE

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

Date 30-Mar-22
Workorder # 197569
Purchase Order# Ksv008

Contact Name:	Chris	Phone #:	(780) 872-8240
Item:	CRT Mandrel	Location:	Rees NDT Shop, Grande Prairie
Make:	Volant	Model:	CRTi2-4.5
Serial Number:	82304-03-4437A01-04	Unit:	NA
Capacity:		120 ton	

Proof Load Test	132000 lbs	Test Date	30-Mar-22	Required Duration (sec)	300
Test Method: Proof	1.10	Peak Load	272200 lbs	Passed	<input checked="" type="checkbox"/>
Test Equipment:	Make:	Model:	Serial Number:	Capacity:	
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)	



DELAYED USE
Date of 1st Use: Aug 4, 2022
Job #: Rite Resources
Signed By: [Signature]



Inspected By: J. House CGSB #20221 (MPI II) SNT #028 (MPI II) B. Kempert SNT #044 (MPI II LPI II) CGSB #24150 (MPI II) K. Gejdos Millwright (J-09-31585) Machinist (J-11-16754) J. Ibarbia