



INSPECTION SERVICES AND ENGINEERING CERTIFICATION

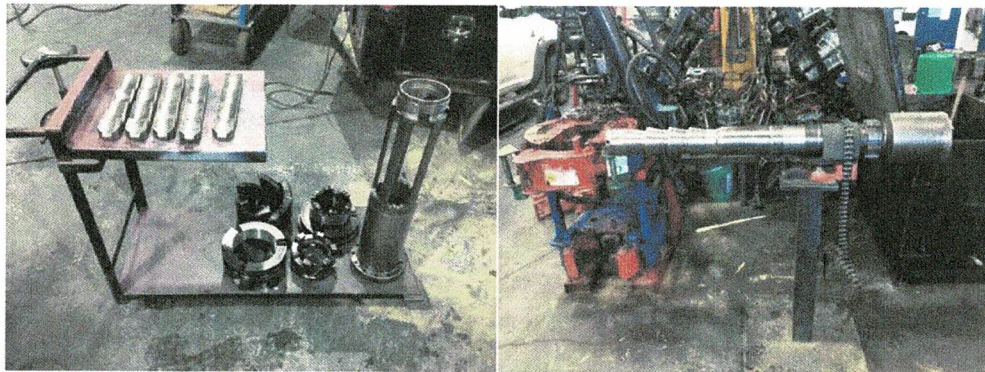
PHONE: 780.870.1547 EMAIL: operations@indexndt.ca Head Office Mail: P.O. Box 10524, Lloydminster, AB T9V 3A6

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		CAOEC 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/RIG:	KSV002
EQUIPMENT:	Volant Tool	MAKE/MODEL:	Volant CRTI3-7.0
REPORT#:	IDX-3076	SERIAL NUMBER:	KSV002

EQUIPMENT PHOTOS



INSPECTION RESULTS

ACCEPTABLE:	X	REJECTED:	DATE OF INSPECTION:	March 14, 2023
TECHNICIAN: 			COMMENTS: Part: Mandrel Cage Upper Cam - Lower Cam - Cam Latch - Cam Int. - Die - Die - Die - Die - Die - Die - Die - Serial#: 82306-03-4459A01-06 82856-4459A02-10 81190-4445A04-06 81191-4459A05-07 80813-4459A06-04 80810-4459A03-03 80928-01-3J1145-03 80928-03-3J7201-10 80928-03-3J7201-07 80928-01-4558A07-47 80928-03-3J7201-08 Material Thickness: 1.295"/ 1.298"/ 1.295"/ 1.299"/ 1.296" REPAIRS: 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 R-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

LOAD TEST CERTIFICATE

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

Date 19-Mar-20

Workorder # 186038

Purchase Order#

Contact Name:	Chris	Phone #:	
Item:	CRT Mandrel	Location:	Rees NDT Shop, Grande Prairie
Make:	Volant	Model:	CRTi3-7.0
Serial Number:	82306-03-4459A01-06	Unit:	NA <i>KSV002</i>
Capacity:		320 ton	

Proof Load Test 640000 lbs

Test Date 20-Mar-20

Required Duration (sec) 300

Test Method: Proof 1.00

Peak Load 642409 lbs

Passed ☒

Test Equipment:

Make:

Model:

Serial Number:

Capacity:

Testing Frame

Volker Ries

525 ton

VR-01

525 ton

Pressure Gauge

Rosemount

3501

-

(0-5000) psi

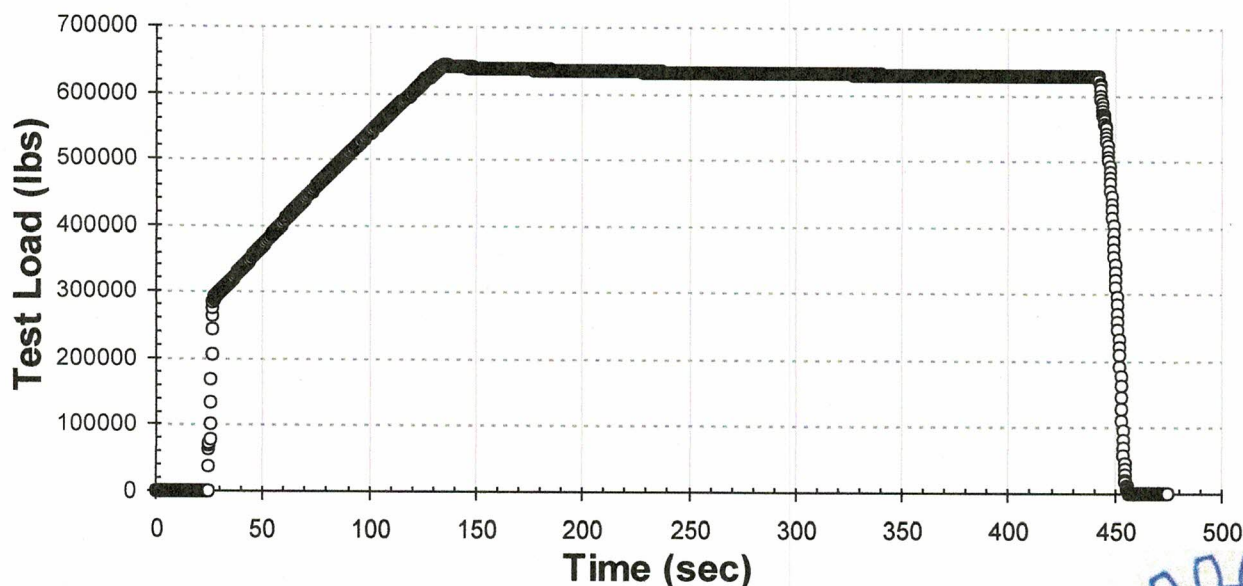
Data Logger

ACR Systems

SRP-7-32K 0-25MA

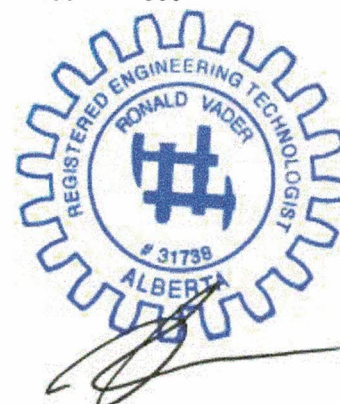
96674

(0-25 mA)



DELAYED USE

Date of 1st Use: *October 6, 2020*
Job #: *23385*
Signed By: *[Signature]*



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

Workorder



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INSPECTION DATE: 19-Mar-20

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

RECERTIFICATION DUE: 19-Mar-2025

REES NDT PO NUMBER: R58552
CLIENT PO NUMBER:
REES NDT WO NUMBER: 186038

INSPECTION CERTIFICATE

CERTIFICATION OF: CRT Mandrel

MAKE: Volant

MODEL: CRTi3-7.0

SERIAL NUMBER: 82306-03-4459A01-06

UNIT NUMBER: NA

CAPACITY: 320 ton

OWNER: K & S Power Tongs

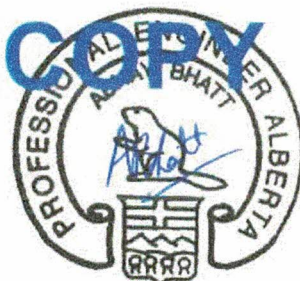
REPAIRS/MECHANICAL COMPLETED BY: NA

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 #186038. 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:



25-Mar-2020

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

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