


**INSPECTION SERVICES AND ENGINEERING CERTIFICATION**
**AB: 780.870.1547 SK: 306.250.9294 Head Office Mail: P.O. Box 10524 Lloydminster, AB T9V 3A6**
**INSPECTION REPORT**

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

<b>CLIENT:</b>	K&S Power Tongs	<b>UNIT/RIG:</b>	KSV002
<b>EQUIPMENT:</b>	Volant Tool	<b>MAKE/MODEL:</b>	Volant CRTi3-7.0
<b>RATING:</b>	N/A	<b>SERIAL NUMBER:</b>	KSV002

**EQUIPMENT PHOTOS**

**INSPECTION RESULTS**

<b>ACCEPTABLE:</b>	X	<b>REJECTED:</b>		<b>DATE OF INSPECTION:</b>	March 20, 2019
<b>TECHNICIAN:</b>			<b>COMMENTS:</b>		
 <p>DN: cn=Tyson C. McLean, o=Index NDT Inspections Ltd., ou, email=tyson @indexndt.ca, c=CA</p>			<b>Part:</b> Mandrel Cage (7.0 - 35.0P)J-03 Upper Cam - 12 Lower Cam - 12 Cam Latch - 06 Cam Int - 06 Die - 7.00" (17-23lbs.) Die - 7.00" (17-23lbs.) Die - 7.00" (17-23lbs.) Die - 7.00" (17-23lbs.) Die - 7.00" (17-23lbs.) Jaws Jaws Jaws Jaws Jaws Jaws Jaws 		
			<b>Serial#:</b> 82306-03-4459A01-06 82856-4459A02-10 81190-4445A04-06 81191-4459A05-07 80813-4459A06-04 80810-4459A03-03 82749-02-4473A12-11 82749-02-4473A12-10 82749-02-4473A12-05 82749-02-4473A12-07 82749-02-4473A12-03 80929-01-4466A01-22 80929-01-4466A01-27 80929-01-4466A01-29 80929-01-4538A03-75 80929-01-3J1147-31 		
			<b>Material Thickness:</b> 1.261/1.262/1.264/1.265/1.269 		
			<b>REPAIRS:</b> 		

**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 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 user'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



Volant Oil Tools Inc.  
4110 56th Avenue NW  
Edmonton, AB T6B 3R8 CANADA

Phone 780.490.5185  
Web www.volantproducts.ca

Test Certificate No.

00460

**Equipment Designation**

Description: Casing Running Tool (Internal)

Tool Name Mandrel-06, CRTI3-7.0

Design Capacity: 640 kip

Test Temperature: 21.3 deg C

Manufacturer: Volant Oil Tools Inc.

**Test Parameters**

Test Date: 2014-08-21, 1:05 PM

Test Type: Proof Load Test

Test Load: 960 kip Minimum

Load Duration: 300 seconds (Minimum)

Test Equipment	Unique Identifier	Additional Information
Volant 5M lb Load Frame	VLF-01	Insp. Record: VOT-18328
GP:50-314 Delta P. Sensor	GP:50 Ser. # 18765	
NI 9203 4-20 mA module	NI Ser. #: 172B90E	

**Test Description:**

Load to 640 kip, unload, load to 960 kip, hold for 5 minutes as per Volant proof test procedure 40059.

**Test Observations:**

This test complies with the following standard(s)/procedure(s):

API Specification 8C, 5th Edition  
40059 Volant CRTI2.3-7.0 Mandrel Proof Test Procedure

**Performed By:**

Print Name: Andrew Fitzpatrick

Signature:

**Approved By:**

Print Name: Isaac Jenkins

Signature:

**Primary Load Carrying Components**

Mandrel-06  
82306-03-4459A01-06

**DELAYED USE**

Date of 1st Use: March 21, 2015

Job #: 19817

Signed By:

