

**INSPECTION SERVICES AND ENGINEERING CERTIFICATION**

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**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>	KSV005
<b>EQUIPMENT:</b>	Volant Tool	<b>MAKE/MODEL:</b>	Volant CRTi2-4.5
<b>RATING:</b>	N/A	<b>SERIAL NUMBER:</b>	KSV005

**EQUIPMENT PHOTOS**

**INSPECTION RESULTS**

<b>ACCEPTABLE:</b>	X	<b>REJECTED:</b>	<b>DATE OF INSPECTION:</b>	March 24, 2020
<b>TECHNICIAN:</b>			<b>COMMENTS:</b>	
			<b>Part:</b> Mandrel Cage Upper Cam Lower Cam Cam Latch Cam Int. Die - 4.5(9.5-11.6lbs.) Die - 4.5(9.5-11.6lbs.) Die - 4.5(9.5-11.6lbs.) Die - 4.5(9.5-11.6lbs.) Die - 4.5(9.5-11.6lbs.) Die - 4.5(9.5-11.6lbs.)	
			<b>Serial#:</b> 82304-03-4402A01-01 81325-4435A17-02 81208-4437A04-07 81221-4437A05-04 81212-4437A06-02 80942-4437A03-05 80957-01-4589A11-27 80957-01-4589A11-08 80957-01-4589A11-09 80957-01-4448A01-29 80957-01-4589A11-26	
			<b>Material Thickness:</b> 0.884/0.883/0.889/0.886/0.887	
			<b>REPAIRS:</b> 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-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.

00337

**Equipment Designation**

Description: Casing Running Tool (Internal)

Tool Name Mandrel-05, CRT12-4.5

Design Capacity: 240 kip

Test Temperature: 21.8 deg C

Manufacturer: Volant Oil Tools Inc.

**Test Parameters**

Test Date: 2014-02-21, 2:53 PM

Test Type: Load Testing

Test Load: 360 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 240 kip, unload, load to 360 kip, hold for 5 minutes as per Volant proof test procedure 40057.

**Test Observations:**

This test complies with the following standard(s)/procedure(s):  
API Specification 8C, 5th Edition  
40057 Volant CRT11, 2-4.5 Mandrel Proof Test Procedure

**Performed By:**

Print Name: Ramson De Leon

Signature:

**Approved By:**

Print Name: Isaac Jenkins

Signature:

Primary Load Carrying Components	Serial Number
Mandrel - 05	82304-03-4402A01-01

**DELAYED USE**

Date of 1st Use: Feb. 21, 2017

Job #: 21004

Signed By:

