

**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**

<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			CAOEC 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>	KSV014
<b>EQUIPMENT:</b>	Volant Tool	<b>MAKE/MODEL:</b>	Volant CRTi3-7.0
<b>REPORT#:</b>	IDX-5253	<b>SERIAL NUMBER:</b>	KSV014

**EQUIPMENT PHOTOS**

**INSPECTION RESULTS**

<b>ACCEPTABLE:</b>	X	<b>REJECTED:</b>		<b>DATE OF INSPECTION:</b>	April 4, 2024
<b>TECHNICIAN:</b>			<b>COMMENTS:</b>		
			<b>Part:</b> Cage- 82306-12-3J11582-01 Upper Cam - 124338-3J11100-06 Lower Cam - 102351-3J11792-01 Cam Latch - 102348-3J11793-07 Cam Int - 102349-3J10780-13 Mandrel - 82856-3J11712-02 Die- 80928-03-3J7201-07 Die- 80928-03-3J7201-10 Die- 80928-03-3J7201-08 Die- 80928-03-3J7201-06 Die- 80928-01-4558A07-47		
			<b>Mandrel Thickness:</b> 1.277/1.280/1.281/1.281/1.282		
			<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.

# Certificate of Testing

Volant Oil Tools Inc. t +1 780.490.5185  
 4110 56 Avenue NW f +1 780.437.2187  
 Edmonton AB T6B 3R8 info@volantproducts.ca  
 Canada www.volantproducts.ca



## Load Testing

### Test Parameters

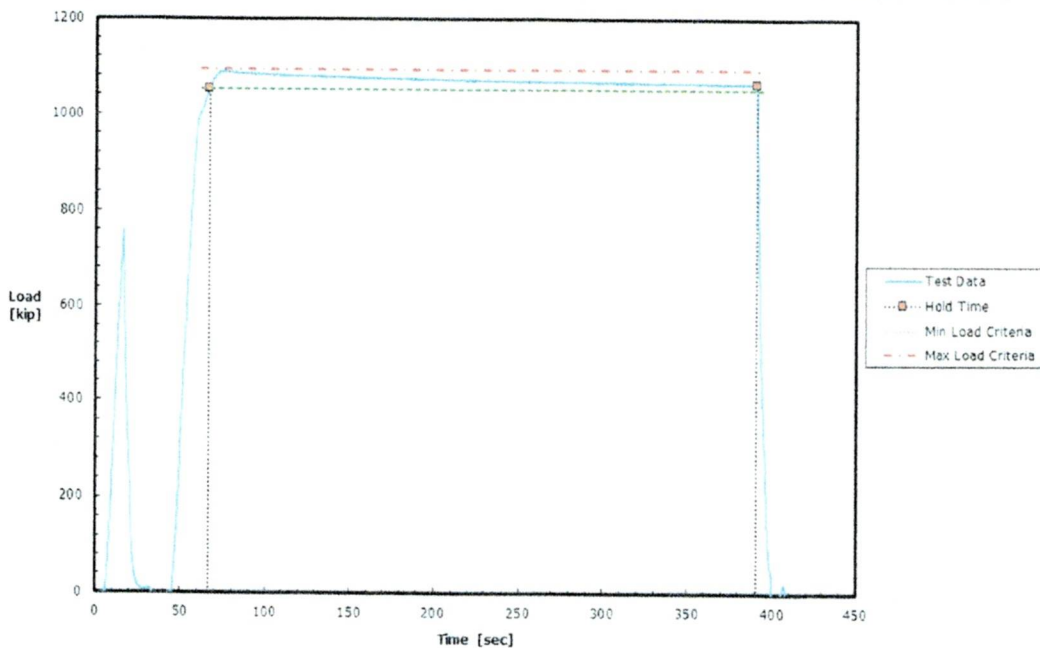
Target Test Load: 1050 kips Minimum Hold Time: 300 s

### Test Summary

Test Components									Test Equipment	
Part Number	Part Name	Serial Number	Passed	Procedure	Actual Test Load	Hold Time	Test ID	Test Date	Identifier	Calibration Due
82306-12	Mandrel,CRTI2-7.0,350T,4.5IF,SR2	3J00011582-01	Passed	102870	1052 kips	324 s	L01-001792	Feb 14, 2023	VLF-01	Feb 28, 2023

Test Approved By: Steven Hargreaves Test Approved On: Thursday, February 16, 2023

### Test Graph for L01-001792



**DELAYED USE**  
 Date of 1st Use: July 14, 2023  
 Job #: 25536  
 Signed By: [Signature]

This is to certify that the equipment listed was tested in accordance with the referenced Procedure(s) to meet the Proof testing requirements of API-8C, 5th Edition

Signed: [Signature]  
 Steven Hargreaves,  
 Manager, Quality Assurance,  
 Volant Oil Tools Inc.

Date: Mar 7, 2023



ISO 9001  
 Quality

## MAGNETIC PARTICLE TESTING REPORT - 323712

CLIENT: **VOLANT OIL TOOLS (MAIN)**  
**4110 56 Avenue**  
**Edmonton, Alberta T6B 3R8**

DATE: **February 17, 2023**  
INVOICE #:  
JOB #: **3J11582**  
P.O. #: **3PO16027**

EQUIPMENT OWNER: **VOLANT OIL TOOLS**  
LOCATION: **EDMONTON, AB**

### TECHNIQUE DETAILS

PROCEDURE #: **MTP-01 REV 8**  
TEST METHOD: **ASTM E709 (2021)**  
ACCEPTANCE STANDARD: **API 8C (5TH ED) (2014) 8.4.7.2 / 8.4.7.3 & 8.4.7.4/ VOLANT SPEC.40068 REV.C**

### EQUIPMENT

Manufacturer: **PARKER CONTOUR PROBE** Type: **B300** Serial #: **27685**  
Last Calibration: **Feb-17-2023** Calibration Due: **Feb-18-2023**  
Manufacturer: **REL** Type: **C4-NOMAD** Serial #: **18052202**  
Last Calibration: **Feb-17-2023** Calibration Due: **Feb-18-2023**  
Manufacturer: **WI** Type: **W-PT** Serial #: **1029**  
Last Calibration: **Feb-17-2023** Calibration Due: **Feb-18-2023**

MAGNETIZING METHOD:  AC  DC  Continuous  Residual  Yoke  Coil  
MAGNETIC PARTICLES:  Wet  Fluorescent  Non-Fluorescent  
 Dry Color: **FLUORESCENT GREEN**

Manufacturer: **SERM** Type: **FLUXO 14AM** Batch/Lot #: **36E76H**  
LIGHT SOURCE:  Halogen 250W  Incandescent 100W  Maglite 6 Volt Serial: **RC666**  
SURFACE CONDITION:  Bare Metal  Ground  Machined  Blasted  Painted  Welded  Loose Scale Removed  
MATERIAL TYPE: **CS** MATERIAL THICKNESS: **VARIOUS** SURFACE TEMP: **20.0°C**

### ITEMS TESTED

WET FLUORESCENT MAGNETIC PARTICLE TESTING WAS PERFORMED ON THE FOLLOWING ITEMS:

#### MANDREL, CRTI 2-7.0, 350TON, 4.5IF, SR2

PART NAME	SERIAL #	Accept	Reject
6) MANDRELS	82306-12-3J11582-01 TO 06	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### TEST RESULTS & COMMENTS

NO RELEVANT INDICATIONS WERE DETECTED AT TIME OF TESTING.  
BLACK LIGHT INTENSITY AT INSPECTION SURFACE WAS GREATER THAN 1000 MICRO WATTS.  
YOKE VERIFIED DAILY BEFORE USE WITH ALTERNATING CURRENT SUSTAINED LIFT USING (10 Ibs.2oz) CAL BLOCK

Continued on next page . . .


**SIGNATURES** \* Client representative's signature indicates acceptance of the reports and results. Nortech Advanced NDT Ltd. is liable for examination costs only.

CLIENT REPRESENTATIVE\* (PRINT/SIGN) VOLANT QC /

Technician (PRINT) Ryan Cherwoniak

CGSB: 2 CGSB REG#: 13189 SNT-TC-1A: II

Technician (SIGN)



## MAGNETIC PARTICLE TESTING REPORT - 323712

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### SIGNATURES

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