



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

Phone +1 780.490.5185
www.volantproducts.ca

Proof Load Test

Certificate No.

1294

Test Object Designation

Unit Name: CRT12-7.0-320t-Base
Unit ID Number: 3J4540-03
Main Part: Mandrel-06, CRT12-7.0
Part Number: 82306
Design Capacity: 640 kip / 2847 kN
Manufacturer: Volant Oil Tools Inc.

Test Parameters

Test Date: June 6, 2019
Test Type: Tensile
Test Load, Min: 960 kip / 4270 kN
Test Load, Max: 989 kip / 4399 kN
Load Duration: 300 sec
Test Object Temperature: 22.3 °C

Test Equipment

Description	Unique Identifier	Calibration Due Date
Horizontal Load Frame	VLF-01	2020-03-11
-	-	-
-	-	-
-	-	-

Test Notes:

The highest applied test load was 989 kip.
The lowest load during the hold period was 967 kip.

Inspection Results:

This test complies with the following standard(s)/procedure(s):
API Specification 8C, 5th Edition
Volant Proof Test Requirements 102870

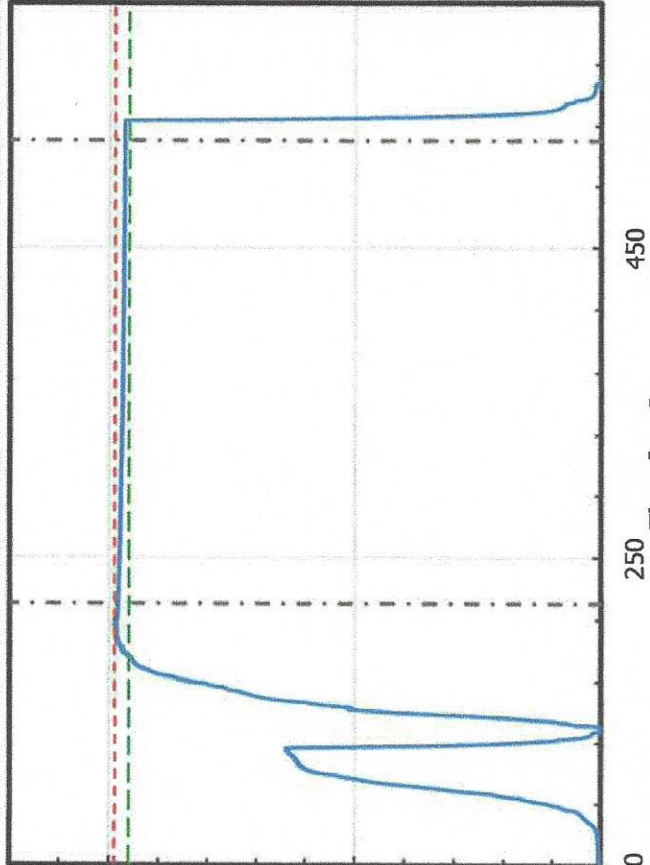
QA Approval:

Print Name: S. Hargreaves

Signature:

Primary Load Carrying Components

Part Number	Serial Number
82306-03	314540-03
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-



Time [sec] 450
ENG-F013 Rev.2 2017-01-15

MAGNETIC PARTICLE TESTING REPORT - 263775

CLIENT: **VOLANT OIL TOOLS INC.**
4110-56 AVENUE
Edmonton, Alberta T6B 3R8

DATE: **June 20, 2019**
INVOICE #: **100555**
JOB #: **3J4540**
P.O. #: **3PO6542**

EQUIPMENT OWNER: **VOLANT OIL TOOLS INC.**
LOCATION: **VOLANT OIL TOOLS INC.**

WORK ORDERS: **26846**

TECHNIQUE DETAILS

PROCEDURE #: **MTP-01 REV 4**
TEST METHOD: **ASTM E709 (2015)**
ACCEPTANCE STANDARD: **API 8C (5TH ED) (2014) 8.4.7.2 / 8.4.7.3 & 8.4.7.4 / VOLANT SPEC.40068 REV.A**

EQUIPMENT

Manufacturer:	PARKER CONTOUR PROBE	Type:	B300	Serial #:	27685
Last Calibration:	Jun-20-2019	Calibration Due:	Jun-21-2019		
Manufacturer:	REL	Type:	C4-NOMAD	Serial #:	18052202
Last Calibration:	Jun-20-2019	Calibration Due:	Jun-21-2019		
Manufacturer:	WI	Type:	W-PT	Serial #:	1029
Last Calibration:	Sep-01-2015	Calibration Due:	Sep-01-2025		
Manufacturer:	MAGNAFLUX	Type:	UV LIGHT METER	Serial #:	120382
Last Calibration:	Sep-21-2018	Calibration Due:	Sep-21-2019		
Manufacturer:	PARKER CONTOUR PROBE	Type:	COIL	Serial #:	35
Last Calibration:	Jun-20-2019	Calibration Due:	Jun-21-2019		

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 #: **28ES2W**

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: **VARIOUS** MATERIAL THICKNESS: **VARIOUS** SURFACE TEMP: **19.0°C**

ITEMS TESTED

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

MANDREL, CRTi 2-7.0, 320TON, 4.5 IF, SR2

PART NAME	SERIAL #	Accept	Reject
9) MANDRELS	82306-03-3J4540-02 THRU TO 10	✓	

TEST RESULTS & COMMENTS

NO RELEVANT INDICATIONS WERE DETECTED AT TIME OF TESTING.
BLACK LIGHT INTENSITY AT INSPECTION SURFACE WAS GREATER THAN 1200 MICRO WATTS.

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) NELSON / **RONALD E.**
Technician (PRINT) Ryan Cherwoniak CGSB: 2 CGSB/REG#: 13189 SNT-TC-1A: II

Technician (SIGN)

