

# Certificate of Testing

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## 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    |

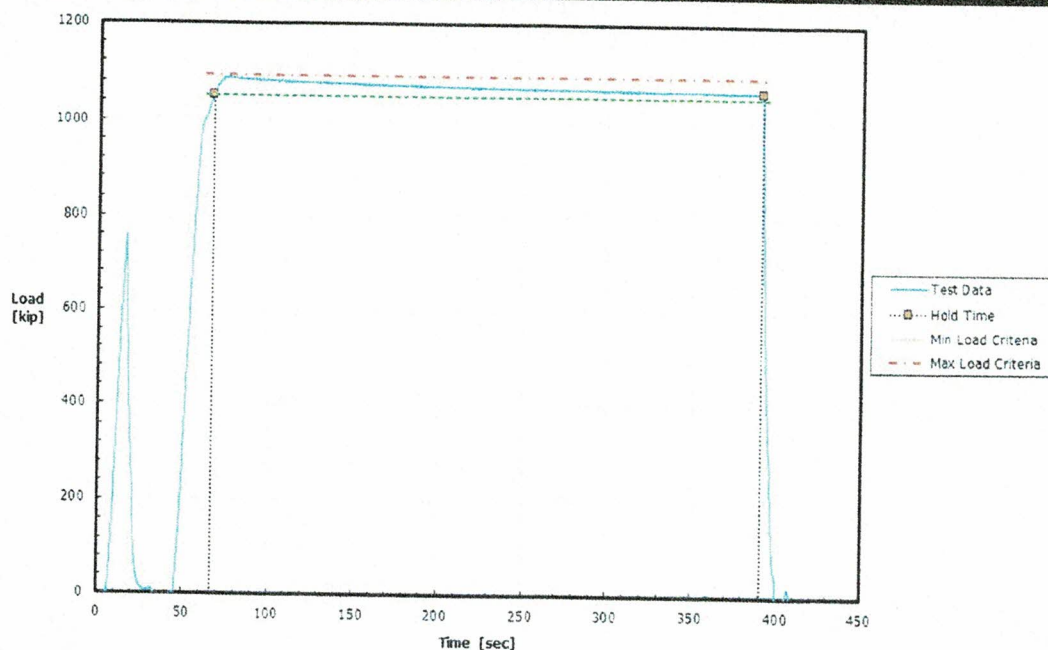
Test Approved By:

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 | ✓      |        |

### 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 lbs.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

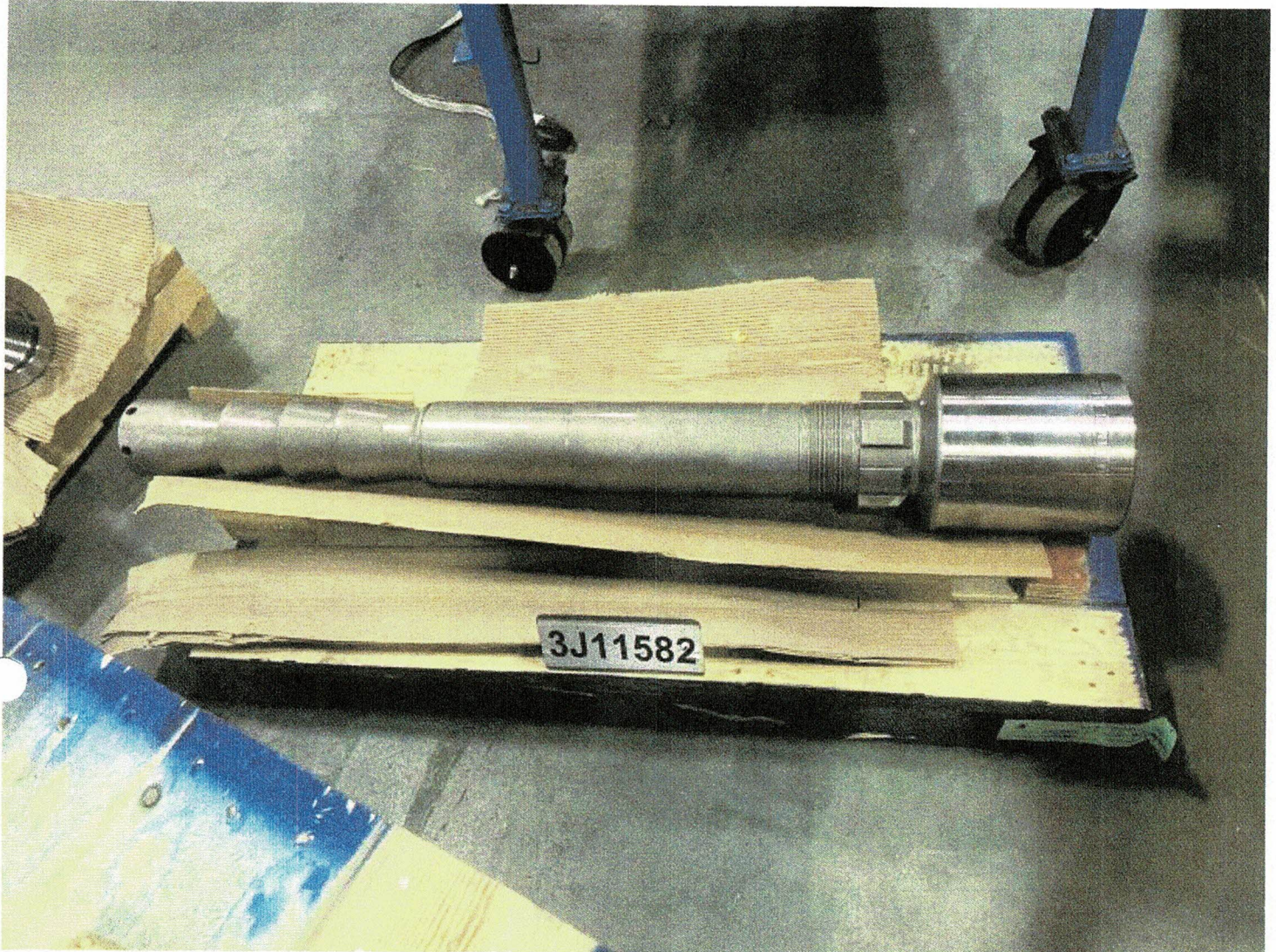
Technician (SIGN)





## MAGNETIC PARTICLE TESTING REPORT - 323712

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Technician (PRINT) Ryan Cherwoniak

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