

WILLISTON BASIN INSP., INC.
NDT SERVICES 701-572-5031

SPECIFICATION: WBI QC-MT-4000 VER 1.1
QA APPROVAL BY: CRAIG METCALF 2/28/2018
LEVEL III APPROVAL BY: PAUL T. MARKS 2/28/2018

INVOICE NO. 30141 (1)

INVOICE DATE 3/28/19

PO Box 20
Williston, ND 58802
wbi@nemont.net

NOBLE CASING, INC
K&S Power Tools Ltd.

LOCATION WBI SHOP-WILLISTON, ND Rig No. K5V009

INSPECTOR CHAD WOODWARD LEVEL 2 MT SIGNATURE: [Signature]

TYPE OF INSPECTION: VISUAL MAGNETIC PARTICLE (MT) DYE PENETRANT (PT) _____ ULTRASONIC (UT) _____

MAGNETIZING METHOD: AC DC CONTINUOUS RESIDUAL _____ PROB. _____ YOKE COIL SER. # SHOP 1/8"MG

MAGNETIC PARTICLE: DRY _____ WET COLOR _____ GRAY _____ FLUORESCENT NON-FLUORESCENT _____

PENETRANT: COLOR _____ RED/WHITE _____ FLUORESCENT _____ WATER BASE _____ SOLVENT BASE _____ BATCH # _____

FLUORESCENT PARTICLE: WATER BASE _____ SOLVENT BASE BATH STRENGTH .03 TYPE MG 410

BLACK LIGHT: STRENGTH 3100 SERIAL # SHBL1 LIGHT METER SERIAL # 1821621 CALIBRATION DATE 8/2018

ULTRASONIC: UNIT _____ SERIAL # _____ TRANSDUCER # _____ CALIBRATION DATE _____

SURFACE CONDITION: CLEAN BARE METAL AS GROUND _____ MACHINED _____ SAND BLASTED PAINTED _____
LOOSE SCALE REMOVED _____ PRIMED _____

MT TESTING: SPECIFICATION : WBI QC-MT-4000 VERSION 1.1 2018
ACCEPTANCE STANDARD: AWS D.1.1 - 2015 SECTION 6
TECHNIQUE AND PROCEDURE: ASTM E 709 - 15

ITEMS INSPECTED:

- CRT TOOL: #82306-03-4501A01-12
- CONSISTING OF:
- MANDREL
- UPPER CAM
- LOWER CAM
- INTERMEDIATE CAM
- LATCH CAM
- CAGE
- (5) DIES

INSPECTION REPORT: ALL ITEMS INSPECTED ACCORDING TO THE PARAMETERS ABOVE:

NO INDICATION OF CRACKS OR DEFECTS FOUND. INSPECTED OK

THESE TEST RESULTS REPORT OUR FINDINGS AT THE TIME OF INSPECTION AND SHALL BE REVIEWED BY THE CLIENT FOR COMPLIANCE TO THE PROJECT REQUIREMENTS. DUE TO THE LIMITATIONS OF NONDESTRUCTIVE TESTING IN EVALUATING ALL OF THE FACTORS THAT DETERMINE THE OVERALL COMPONENT QUALITY, NO GUARANTEE IS MADE OR LIABILITY ASSUMED BY WILLISTON BASIN INSPECTION INC FOR THE COMPONENT QUALITY OR SERVICEABILITY.



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

Phone 780.490.5185
Web www.volantproducts.ca

Test Certificate No.

00541

Equipment Designation

Description: Casing Running Tool (Internal)

Tool Name Mandrel-06, CRT13-7.0

Design Capacity: 640 kip

Test Temperature:

Manufacturer: Volant Oil Tools Inc.

Test Parameters

Test Date: 2015-02-09, 11:37 AM

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 CRT12, 3-7.0 Mandrel Proof Test Procedure

Performed By:

Print Name: Andrew Fitzpatrick

Signature: *Andrew Fitzpatrick*

Approved By:

Print Name: M. Rahman

Signature: *M. Rahman*

Primary Load Carrying Components

Mandrel-06

Serial Number

82306-03-4501A01-12

DELAYED USE

Date of 1st Use: Dec. 6, 2017

Job #: 21434

Signed By: *[Signature]*

