

# MAGNETIC PARTICLE EXAMINATION REPORT

REPORT No.: **MT - 2020 - 01 - EDP**

Page: **1** of **3**

Client: **Enerplus Resources**  
District: **Badlands: Hanna** LSD: **11-20-035-17W4M**  
Facility: **Leo-Gough Lake Battery & Field**  
Item(s) Examined: **100% Internal Welds and Nozzles**  
Acceptance Criteria: **ASME Sec. VIII Div. 1** Rev. / Date: **2010**  
Procedure No.: **ITS-MT04** Rev. / Date: **Rev. 1 / Oct-11**  
Technique No.: **Technique 03** Rev. / Date: **Rev. 1 / Oct-11**

ITS Job No.: **2020**  
Date: **November 2, 2012**  
Time: **13:30**  
W.O. No.: **N/A**  
P.O. No.: **N/A**  
Cost Code: **N/A**  
AFE: **N/A**  
Other: **N/A**

## Equipment Data:

PRN: **(A) 138997** Serial No.: **28319A** Equip. No.: **23052** CRN: **F398.2**  
Material: **SA 516-70** Thickness: **Head 0.836", Shell 0.8415"** Other: **Year Built: 1987**

## Surface Condition:

☒ Base Metal ☐ Machined ☐ Shot Blasted ☒ Wire Wheeled ☐ As Ground ☐ As Welded ☐ Painted ☐ Coated ☐ Other: **N/A**  
☐ < -20°C (-5°F) ☒ -20°C (-5°F) to 54°C (130°F) ☐ 55°C (131°F) to 315°C (600°F) ☐ > 315°C (600°F)

## Equipment:

Equipment	Serial No.	Cal. Due Date	MT Technique and Examination Medium:	
<input checked="" type="checkbox"/> Hand Yoke: <b>Contour</b>	<b>9335</b>	<b>15-Jul-13</b>	<input checked="" type="checkbox"/> AC <input type="checkbox"/> DC	<input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Residual
<input type="checkbox"/> Perm. Magnet:			<input checked="" type="checkbox"/> Wet <input type="checkbox"/> Dry	<input checked="" type="checkbox"/> Fluorescent <input type="checkbox"/> Visible
<input type="checkbox"/> Coil:			Manufacturer: <b>MagnaFlux</b> Batch No.:	
<input checked="" type="checkbox"/> Blacklight:	<b>Spectroline</b>	<b>1615771</b>	<input type="checkbox"/> Cleaner:	
<input checked="" type="checkbox"/> Light Meter:	<b>Spectroline</b>	<b>1706820</b>	<input type="checkbox"/> Color Contrast:	
<input type="checkbox"/> Visible Light:	<b>&gt;</b>	<b>Footcandles</b>	<input checked="" type="checkbox"/> Particles:	<b>MagnaGlo 14AM</b> <b>07K07K</b>
Fluorescent Examination Blacklight Intensity Check; Pre: <b>4390</b> $\mu\text{W}/\text{cm}^2$ Post: <b>2950</b> $\mu\text{W}/\text{cm}^2$			<input type="checkbox"/> Other:	

## Examination Details:



**SCOPE:** A wet fluorescent Magnetic Particle examination was performed on the following 100% Internal welds and nozzles. The bullet is situated North-South and the numbering of it is from the North going South for the circumferential welds.

**RESULTS:** On the West side of C4 (circumferential weld) , below the T7 intersection, the main indication approx. 3/16 inches long was found on the cap of the weld. There was also an indication below and two above the main 3/16 inch long weld (see photo). The area was buffed and re-examined. No relevant indications were found at time of examination. The area of the cap that was ground is approx. 1 inch long (parallel to weld) x 1/2 inch (across the cap of the weld) x 0.030 inch deep.

**CONCLUSION:** Based on the results of this examination, the above mentioned items were found to contain no relevant indications and is acceptable to the above mentioned standard.

Client Representative: \_\_\_\_\_ Sign: \_\_\_\_\_ Date: \_\_\_\_\_

## Technician(s):

Sign: 	Sign: 
Print: <b>Erwin Pederson</b>	Print: <b>Lisa Poudrie</b>
1 <sup>st</sup> Technician	2 <sup>nd</sup> Technician / Assistant
CGSB: <b>2</b> SNT: <b>ACCP/ASNT</b>	CGSB: <b>2</b> SNT: <b>ACCP/ASNT</b>
Level: <b>2</b>	Level: <b>2</b>
Certification No.: <b>11157</b>	Certification No.: <b>11157</b>

## CONTINUATION EXAMINATION REPORT

REPORT No.: MT - 2020 - 01 - EDF

Page: 2 of 3

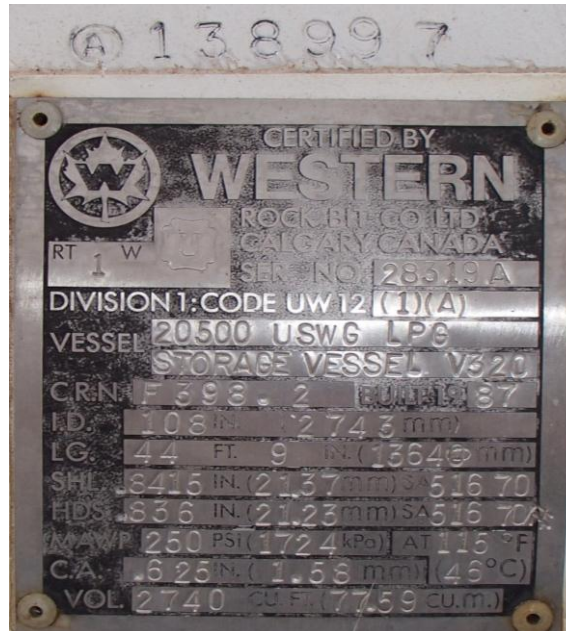
Client: Enerplus Resources

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### PHOTOS



### NAME PLATE



### OVERALL VIEW

1<sup>st</sup> Technician:

Print: Erwin Pederson

Sign: *Erwin Pederson*

## CONTINUATION EXAMINATION REPORT

REPORT No.: MT - 2020 - 01 - EDF

Page: 3 of 3

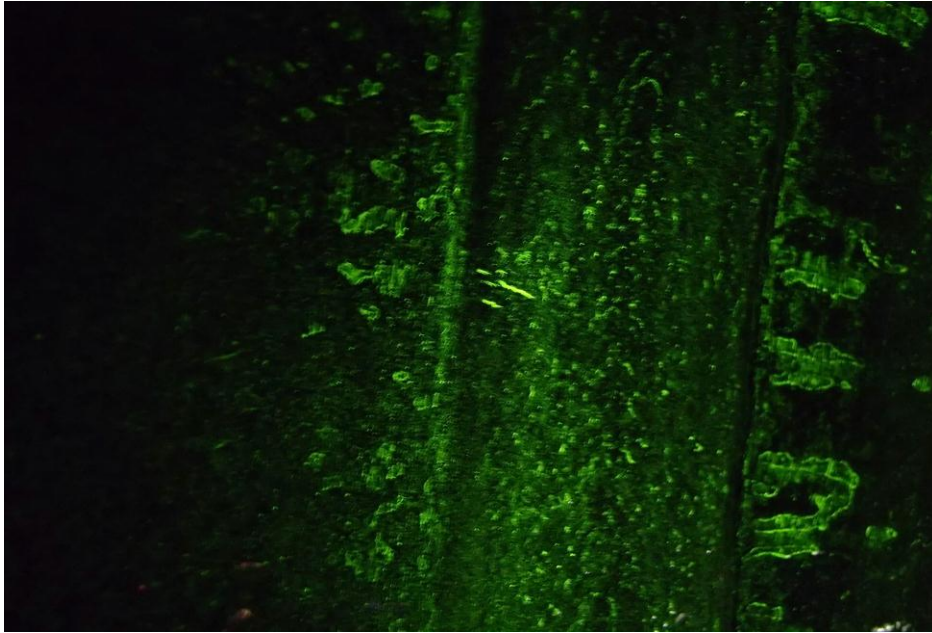
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C4 Circ. weld



C4 Circ. weld after buffing



Below the T7 Tee weld



1<sup>st</sup> Technician:

Print: Erwin Pederson

Sign: *Erwin Pederson*