



# FIRETUBE INSPECTION & TESTING REPORT

|                  |                    |                 |                |
|------------------|--------------------|-----------------|----------------|
| District:        | GRANDE PRAIRIE     | Skid No.:       |                |
| Facility:        | Spirit River South | Location (LSD): | 08-09-077-07W6 |
| Name & Equip No: | TREATER            | Orientation:    | Horizontal     |

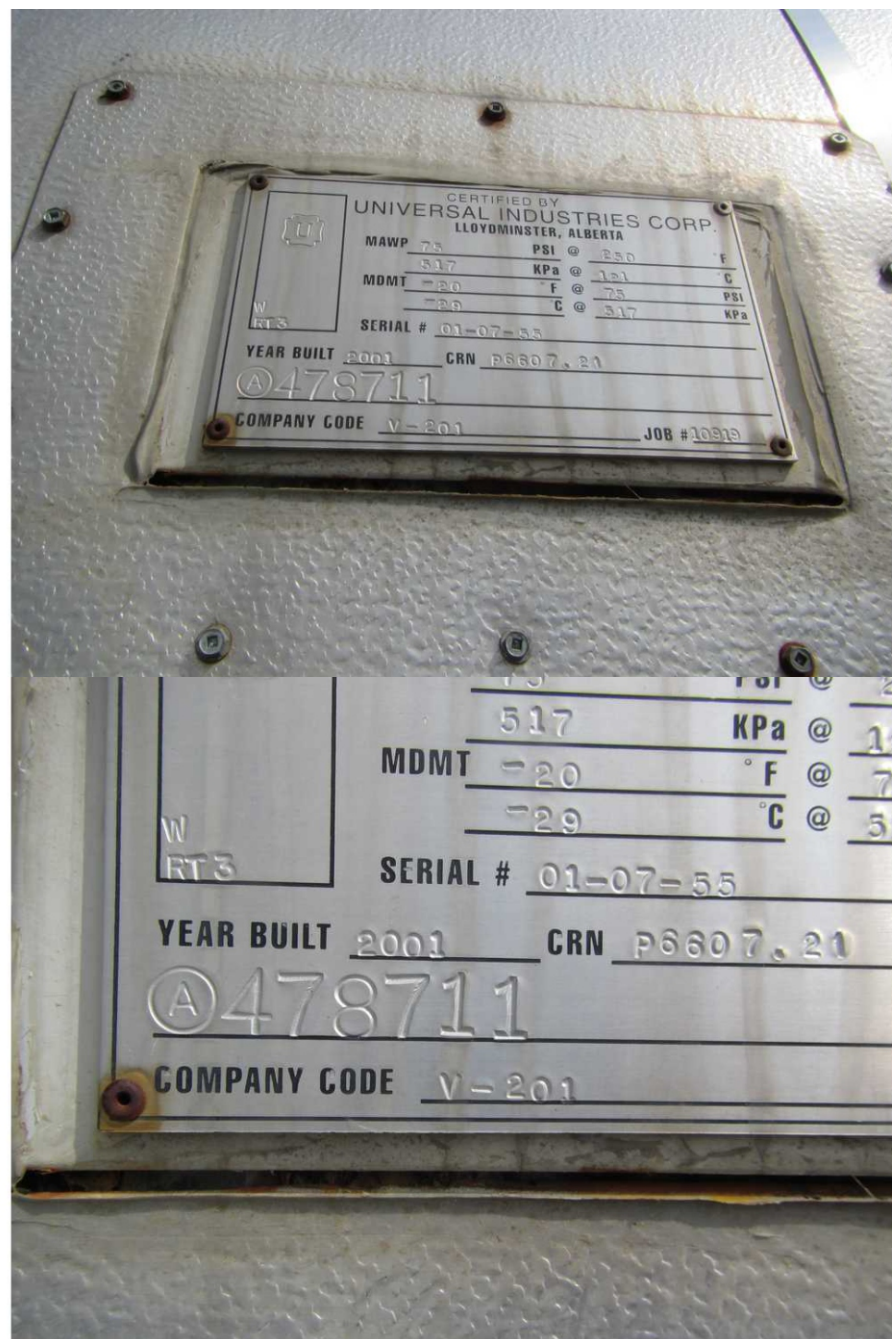
INSPECTOR: JAMES TANASICHUK

VITUS INTERNAL REVIEW BY: KEVIN BILLESBERGER DATE: 06. JULY 2022

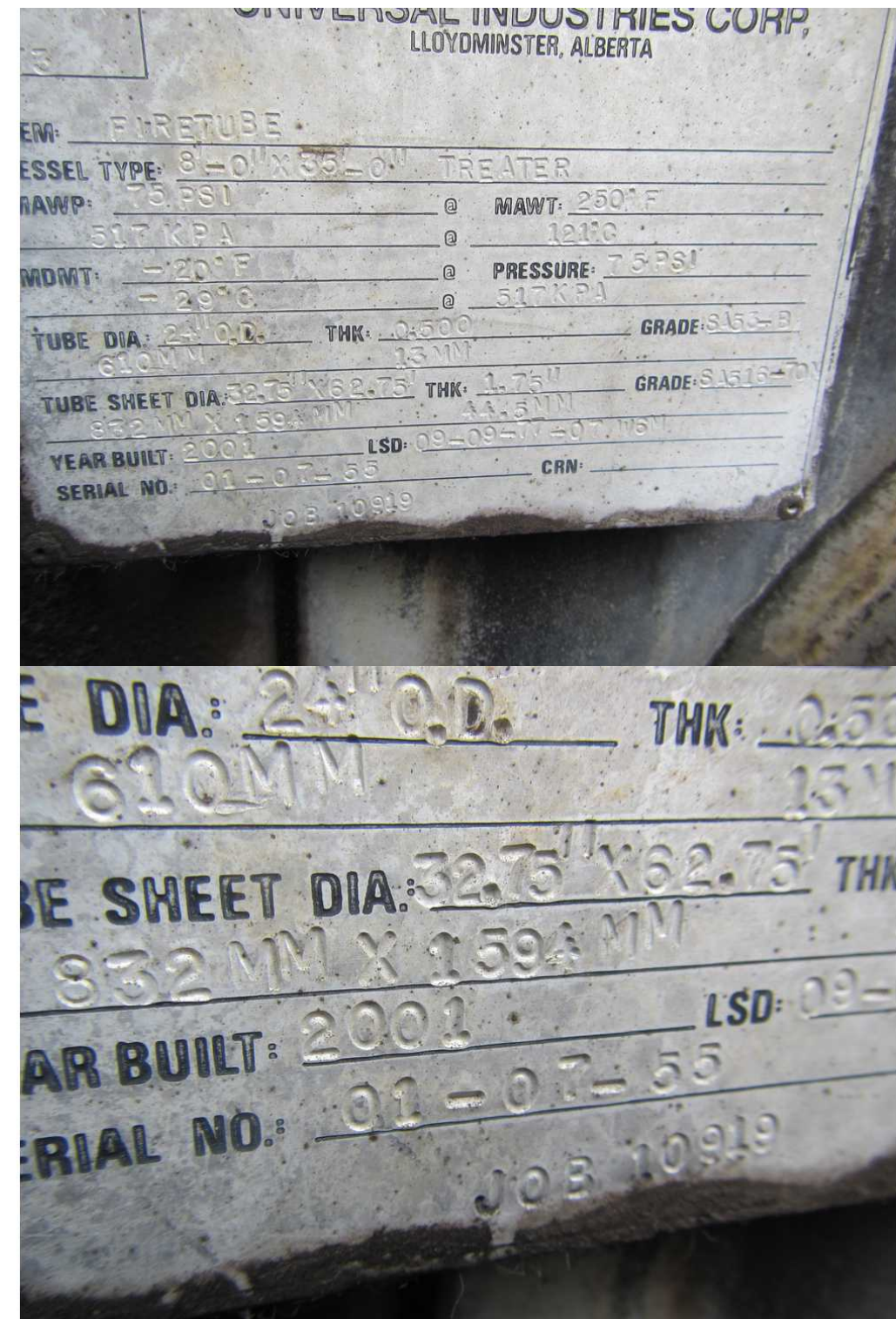
CLIENT SIGNOFF: DATE:

## FIRETUBE STATIC DATA

| GENERAL INTERNAL COMPONENT INFORMATION |                    |                              |                           |
|--|--------------------|------------------------------|---------------------------|
| District:                              | GRANDE PRAIRIE     | Skid No.:                    |                           |
| Facility:                              | Spirit River South | Location (LSD):              | 08-09-077-07W6            |
| Name & Equip No:                       | TREATER            | Orientation:                 | Horizontal                |
| Company:                               | CNRL               | Cost Code:                   |                           |
| Status:                                | Operating          | Operating Province:          | Alberta                   |
| NAMEPLATE DATA                         |                    |                              |                           |
| Registration Number:                   |                    | Registration Number (Other): |                           |
| Serial Number:                         | 01-07-55           | Manufacturer:                | UNIVERSAL INDUSTRIES LTD. |
| Year Built:                            | 2001               | Design Pressure:             | 75.00 (psi) 517.11 (Kpa)  |
| Internal Component:                    | FIRETUBE           | Design Temperature:          | 250.00 (F) 0.00 (C)       |
| Equipment Type:                        | tube               | Size Diameter:               | 24.00 (In) 609.60 (mm)    |
| Material Type:                         | SA-516 70MT        | Size Length:                 | 224.00 (In) 5689.60 (mm)  |
| S Value:                               | 20000.00           | CRN:                         | P6607.21                  |
| Joint Efficiency:                      | 1.00               |                              |                           |
| ASSOCIATED EQUIPMENT                   |                    |                              |                           |
| Registration Number                    | Equipment Number   | Equipment Name               |                           |
| 0478711                                |                    | TREATER                      |                           |
| GENERAL COMMENTS                       |                    |                              |                           |



TREATER  
NAMEPLATE



FIRETUBE  
NAMEPLATE



# MAGNETIC PARTICLE EXAMINATION REPORT - FIRETUBE

|                  |                    |                 |                |
|------------------|--------------------|-----------------|----------------|
| District:        | GRANDE PRAIRIE     | Skid No.:       |                |
| Facility:        | Spirit River South | Location (LSD): | 08-09-077-07W6 |
| Name & Equip No: | TREATER            | Orientation:    | Horizontal     |



## MAGNETIC PARTICLE EXAMINATION REPORT

|                           |                |                  |                    |                     |                |
|---------------------------|----------------|------------------|--------------------|---------------------|----------------|
| <b>Registration #:</b>    |                | <b>Province:</b> | AB                 | <b>Report Date:</b> | 07/05/2022     |
| <b>Equipment Name:</b>    | TREATER        | <b>Report #:</b> |                    |                     |                |
| <b>District:</b>          | GRANDE PRAIRIE | <b>Location:</b> | Spirit River South | <b>LSD:</b>         | 08-09-077-07W6 |
| <b>CRN:</b>               |                | <b>Skid No.:</b> |                    | <b>SERIAL #:</b>    | 01-07-55       |
| <b>Manway:</b>            |                | <b>Coating:</b>  |                    |                     |                |
| <b>MAWP (psi):</b>        |                | <b>Temp:</b>     |                    |                     |                |
| <b>Outstanding NCR's:</b> | No             | <b>No.:</b>      | 0                  |                     |                |

|                       |  |
|-----------------------|--|
| <b>CODE/STANDARD:</b> | ASME sect 8, Div 1, Appendix 6/ASME Sect 5 ARTICLE 7 |
| <b>ITEM EXAMINED:</b> | TREATER FIRETUBE                                     |

| TECHNIQUE DETAILS & EQUIPMENT |                            |                             |  |
|-------------------------------|----------------------------|-----------------------------|--|
| <b>INSTRUMENT:</b>            | MAGNAFLUX AC YOKE SN#43530 | <b>MT PROCESS:</b>          | WET BLACK/WHITE/DRP                    |
| <b>CALIBRATION DATE:</b>      | 07/05/2022                 | <b>LIGHTING:</b>            | FLASHLIGHT VTC 008 (>100 FOOT-CANDLES) |
| <b>MAGNETIZING METHOD:</b>    | AC CONTINUOUS              | <b>MT PROCEDURE:</b>        | VTC - MT-1 REV 2                       |
|                               |                            | <b>MATERIAL TYPE/THICK:</b> | CARBON STEEL/APPROX 1/2"               |
|                               |                            | <b>INSPECTION TIME:</b>     | APPROX 10AM                            |

|                           |                   |
|---------------------------|-------------------|
| <b>SURFACE CONDITION:</b> | SANDBLASTED CLEAN |
|---------------------------|-------------------|

**SCOPE:** MPI ALL PERTINENT WELDS ON TREATER FIRETUBE AS PER CNRL PROTOCOL. CHECK FOR SURFACE NEAR SURFACE CRACKS

**RESULTS:** THERE WERE NO VISIBLE RELEVANT REJECTABLE LINEAR INDICATIONS FOUND AT TIME OF INSPECTION.  
FIT FOR SERVICE

|                         |                |                       |                     |
|-------------------------|----------------|-----------------------|---------------------|
| <b>CHIEF INSPECTOR:</b> | <b>PESL #:</b> | <b>SIGN OFF DATE:</b> | <b>STATUS:</b> Open |
|-------------------------|----------------|-----------------------|---------------------|

|                                      |              |                                   |                     |
|--------------------------------------|--------------|-----------------------------------|---------------------|
| <b>TECHNICIAN:</b> Jamey, Tanasichuk | <b>SIGN:</b> | <b>CGSB/SNT LEVEL:</b> 2/SNT LV 2 | <b>REG #:</b> 11444 |
| <b>CLIENT REP:</b>                   | <b>SIGN:</b> | <b>DATE:</b>                      |                     |

