	RAE Engineering and Inspection Ltd. www.raeengineering.ca Phone: (780) 469-2401 Fax: (780)-469-2401		Inspection Date:		March 03, 2025		<h1>UT Report</h1>					
			Report Number:		TAS000159							
			Page:		1 of 4							
Client:		Rare Oilfield Services		Job Number:		PR0004081						
Facility:		Shop		Location/LSD:		Vegreville / RJV Gas Field Services						
Equipment Number:		RAE58153		Client Representative:		Ron Gryba						
Equipment Description:		Fuel Gas Scrubber		Client Contact:		403-999-1175						
Equipment Type:		Vessel		Measurment Unit:		Inch						
JOB DESCRIPTION												
Procedure:		NDE Technical Manual Rev 2 (NDE - 701B)										
Acceptance Code:		ASME Sec. VIII Div. 1		Surface Condition:		Painted						
Material:		Carbon Steel		Surface Temp:		0 - 120 °C						
EQUIPMENT, TECHNIQUE & CALIBRATION												
Instrument Mfr:		Waygate Tech	Model:	DMS Go+	S/N:	GOPLS22030098	Cal. Due:	2025-07-07				
Probe Model	Freq MHz	Angle	Dia. (In)	Probe Type	Manufacturer	Serial #	Cable Length	Vel. (m/sec)	Ref dB	Scan dB	Range (in)	
1	DA512	7.5	0	0.250	Dual	GE	21E0108P	4'	5850	60	As Needed	0.500"
Cal Block S/N		1 or 2 Point Cal		Calibration Range		Couplant		Block Material				
1	21-3393		2		0.100" - 0.500"		UTX		Carbon Steel			

Scope:

Conduct 0° straight beam ultrasonic testing on the equipment looking for any signs of wall thinning due to corrosion, erosion, laminations or inclusions.

Result:

The measurements obtained from the inspection locations showed the thicknesses of all the components inspected to be at or around nominal. There were no signs of wall thinning, internal corrosion, erosion, laminations or inclusions at the time of inspection.

Please see the following pages for the pictures of nameplate, the overall view, the isometric drawings, and the thickness measurements.

Conclusion:

No concerns noted at the time of inspection.

Black - Within ASME Tolerance
Blue - Nominal minus ASME Tolerance
Red - Nominal minus ASME Tolerance minus CA or Nominal minus ASME Tolerance (if CA = N/S)
Orange- Nominal Not Specified (N/S)



RAE Engineering and Inspection Ltd.

www.raeengineering.ca

Phone: (780) 469-2401 Fax: (780)-469-2401

Inspection Date:

March 03, 2025

Report Number:

TAS000159

Page:

2 of 4

UT Report

Photo Graphics



Nameplate

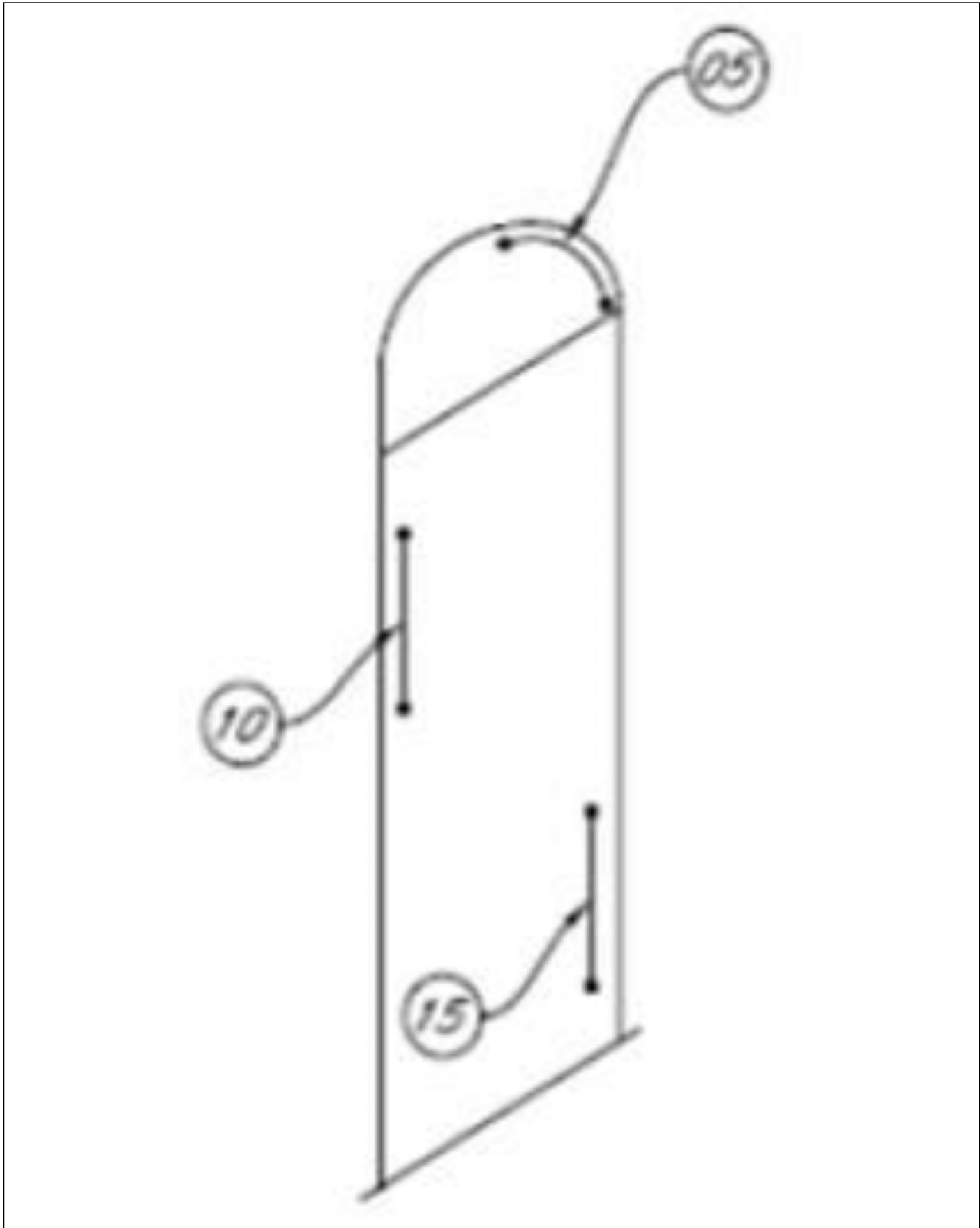


Overall View




RAE Engineering and Inspection Ltd. www.raeengineering.ca Phone: (780) 469-2401 Fax: (780)-469-2401	Inspection Date:	March 03, 2025	UT Report
	Report Number:	TAS000159	
	Page:	3 of 4	

ISO Drawing



ISO Drawing

	RAE Engineering and Inspection Ltd. www.raeengineering.ca Phone: (780) 469-2401 Fax: (780)-469-2401							Inspection Date:		March 03, 2025		UT Report		
								Report Number:		TAS000159				
								Page:		4 of 4				
UT Data														
#	01	02	03	04	05	06	07	08	09	10	11	12	Min & Avg	
5	Top Head						Nom	0.282	Mil	0.035	CA	0.125	Min:	0.309
	0.329	0.328	0.326	0.324	0.319	0.309	0.314	0.327	0.330	0.335	0.344	0.350	Avg:	0.328
10	Top Shell						Nom	0.319	Mil	0.040	CA	0.125	Min:	0.317
	0.324	0.335	0.335	0.335	0.339	0.337	0.333	0.337	0.333	0.337	0.337	0.317	Avg:	0.333
15	Bottom Shell						Nom	0.319	Mil	0.040	CA	0.125	Min:	0.320
	0.326	0.328	0.331	0.333	0.326	0.330	0.323	0.320	0.328	0.333	0.328	0.328	Avg:	0.328

Tyson Shewchuk

Technician: Tyson Shewchuk
CGSB#:28881 UT Level:1



**NDE-709D Thickness Gage Horizontal Linearity Certificate of Calibration**

Instrument Make: GE Transducer Make: Stresstel
Instrument Model: USM/DMS GO+ Transducer Model: FH2E
Instrument S/N: GOPLS22030098 Transducer S/N: 23A015YZ
Temperature: 21°C Couplant: UTX

Table 1: Thickness Gage Horizontal Linearity Data

CALIBRATION BLOCK S/N	CALIBRATION BLOCK THICKNESS (IN)	BACKWALL NUMBER	MEASURED LENGTH (IN)	DEVIATION (IN)	TOLERANCE (IN)	ACCEPTABLE
60764	0.050	1st	0.050	0	0.006	Yes
21-3393	0.100	1st	0.098	0.002	0.006	Yes
21-3393	0.200	1st	0.200	0	0.006	Yes
21-3393	0.300	1st	0.300	0	0.006	Yes
21-3393	0.400	1st	0.399	0.001	0.006	Yes
21-3393	0.500	1st	0.500	0	0.006	Yes
21-3393	1.00	2nd	1.000	0	0.006	Yes
21-3393	2.000	4th	2.002	0.002	0.006	Yes
21-3393	3.000	6th	3.000	0	0.006	Yes
21-3393	4.000	8th	4.000	0	0.006	Yes

Technician Name: Tyson ShewchukSignature: Tyson ShewchukDate: July 07/2024Calibration Due: July 07/2025