



**ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION**

**ULTRASONIC THICKNESS MEASUREMENT (UTM) CERTIFICATE**

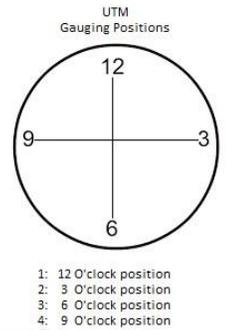
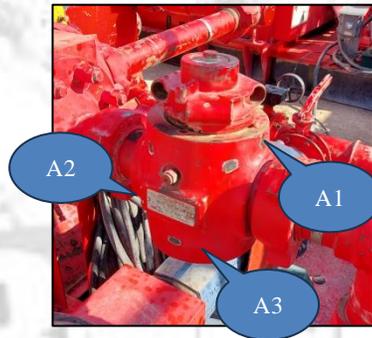


<b>Client:</b> Hilong Oil Services & Engineering	<b>Location:</b> Rig-99 / RU-495	<b>Inspection Date:</b> 02-Jan-2024
<b>Certificate No:</b> ATS-12-23-2486-UTM-004	<b>Work order and/or Job No.:</b> ATS-12-23-2486	<b>Inspection Due Date:</b> 01-Jan-2025

<b>Item Description:</b> 3" Low Torque Valve	
Serial No: 421807047	
Relative Standards/Specifications: ASTM E 797 & Client Specifications	Material: 30CrMoA Low carbon alloy steel
Surface Condition: Brushed and cleaned	Surface Temperature: 22 C°

Measuring Equipment				
UTM Instrument - Maker: HUATEC	Model: TG 4100	S. No.: 5500391	Calibration Date: 15.AUG.2023	Calibration Due Date: 14.FEB.2024
Pit Depth Gauge - Maker: New Tech	Model: NAA-4-M11118	S. No.: 97594	Calibration Date: 17-Aug-2023	Calibration Due Date: 16-Feb-2024

Sketch or picture (direct on this page  or attached )



UTM Results							
Position	Nominal Wall Thickness (mm)	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	-----	15.0	31.7	31.14	31.42	31.57	Accepted
A2	-----	15.0	31.35	31.62	31.29	31.44	Accepted
A3	-----	15.0	31.62	31.53	31.38	31.41	Accepted

**Result:**  
1- UTM WAS CARRIED OUT ON THE ABOVE-MENTIONED ITEM AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS AT THE TIME OF INSPECTION.

<b>Inspector Name:</b>	Abdullah Mofeed	<b>Reviewed by:</b>	Hasan Omran	Stamp
<b>Qualification:</b>	ASNT Level II	<b>Date:</b>	09-01-2024	
<b>Signature:</b>		<b>Signature:</b>		



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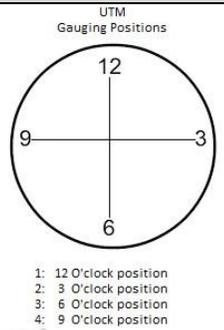
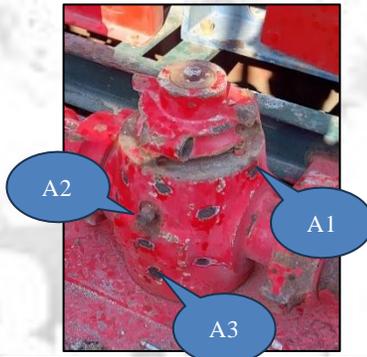


Client: <b>Hilong Oil Services &amp; Engineering</b>	Location: <b>Rig-99 / RU-495</b>	Inspection Date: <b>02-Jan-2024</b>
Certificate No: <b>ATS-12-23-2486-UTM-004</b>	Work order and/or Job No.: <b>ATS-12-23-2486</b>	Inspection Due Date: <b>01-Jan-2025</b>

<b>Item Description: 3" Low Torque Valve</b>	
<b>Serial No: 421807023</b>	
Relative Standards/Specifications: <b>ASTM E 797 &amp; Client Specifications</b>	Material: <b>30CrMoA Low carbon alloy steel</b>
Surface Condition: <b>brushed and cleaned</b>	Surface Temperature: <b>22 C°</b>

Measuring Equipment				
UTM Instrument - Maker: <b>HUATEC</b>	Model: <b>TG 4100</b>	S. No.: <b>5500391</b>	Calibration Date: <b>15.AUG.2023</b>	Calibration Due Date: <b>14.FEB.2024</b>
Pit Depth Gauge - Maker: <b>New Tech</b>	Model: <b>NAA-4-M11118</b>	S. No.: <b>97594</b>	Calibration Date: <b>17-Aug-2023</b>	Calibration Due Date: <b>16-Feb-2024</b>

Sketch or picture (direct on this page  or attached )



**UTM Results**

Position	Nominal Wall Thickness (mm)	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	-----	15.0	30.51	30.24	30.43	31.02	Accepted
A2	-----	15.0	31.07	30.63	30.55	30.71	Accepted
A3	-----	15.0	30.60	31.06	31.04	30.83	Accepted

**Result:**  
 1- UTM WAS CARRIED OUT ON THE ABOVE-MENTIONED ITEM AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS AT THE TIME OF INSPECTION.

Inspector Name:	<b>Abdullah Mofeed</b>	Reviewed by:	<b>Hasan Omran</b>	
Qualification:	<b>ASNT Level II</b>	Date:	<b>09-01-2024</b>	
Signature:		Signature:		

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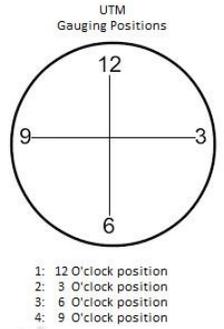
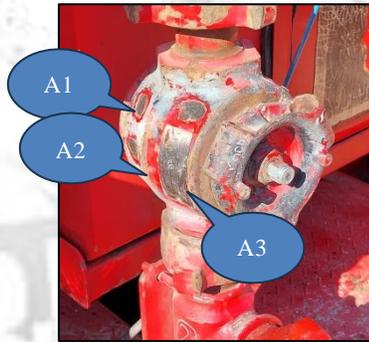


Client: <b>Hilong Oil Services &amp; Engineering</b>	Location: <b>Rig-99 / RU-495</b>	Inspection Date: <b>02-Jan-2024</b>
Certificate No: <b>ATS-12-23-2486-UTM-004</b>	Work order and/or Job No.: <b>ATS-12-23-2486</b>	Inspection Due Date: <b>01-Jan-2025</b>

<b>Item Description: 2" Low Torque Valve</b>	
<b>Serial No: 421807229</b>	
<b>Relative Standards/Specifications: ASTM E 797 &amp; Client Specifications</b>	<b>Material: 30CrMoA Low carbon alloy steel</b>
<b>Surface Condition: brushed and cleaned</b>	<b>Surface Temperature: 22 C°</b>

Measuring Equipment				
<b>UTM Instrument - Maker: HUATEC</b>	<b>Model: TG 4100</b>	<b>S. No.: 5500391</b>	<b>Calibration Date: 15.AUG.2023</b>	<b>Calibration Due Date: 14.FEB.2024</b>
<b>Pit Depth Gauge - Maker: New Tech</b>	<b>Model: NAA-4-M11118</b>	<b>S. No.: 97594</b>	<b>Calibration Date: 17-Aug-2023</b>	<b>Calibration Due Date: 16-Feb-2024</b>

Sketch or picture (direct on this page  or attached )



UTM Results							
Position	Nominal Wall Thickness (mm)	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	-----	19.0	37.02	36.88	37.12	36.87	Accepted
A2	-----	19.0	37.12	36.93	36.89	36.97	Accepted
A3	-----	19.0	36.92	37.09	36.95	36.85	Accepted

**Result:**  
 1- UTM WAS CARRIED OUT ON THE ABOVE-MENTIONED ITEM AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS AT THE TIME OF INSPECTION.

<b>Inspector Name:</b>	<b>Abdullah Mofeed</b>	<b>Reviewed by:</b>	<b>Hasan Omran</b>
<b>Qualification:</b>	<b>ASNT Level II</b>	<b>Date:</b>	<b>09-01-2024</b>
<b>Signature:</b>		<b>Signature:</b>	



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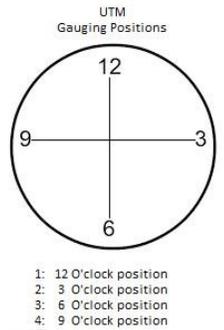
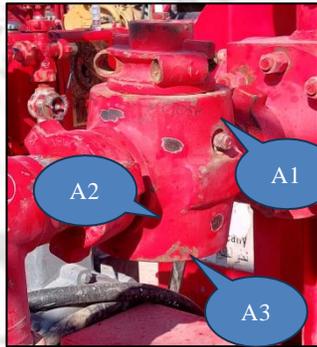


<b>Client:</b> Hilong Oil Services & Engineering	<b>Location:</b> Rig-99 / RU-495	<b>Inspection Date:</b> 02-Jan-2024
<b>Certificate No:</b> ATS-12-23-2486-UTM-004	<b>Work order and/or Job No.:</b> ATS-12-23-2486	<b>Inspection Due Date:</b> 01-Jan-2025

<b>Item Description:</b> 3" Low Torque Valve	
Serial No: 421807048	
<b>Relative Standards/Specifications:</b> ASTM E 797 & Client Specifications	<b>Material:</b> 30CrMoA Low carbon alloy steel
<b>Surface Condition:</b> brushed and cleaned	<b>Surface Temperature:</b> 22 C°

Measuring Equipment				
<b>UTM Instrument - Maker:</b> HUATEC	<b>Model:</b> TG 4100	<b>S. No.:</b> 5500391	<b>Calibration Date:</b> 15.AUG.2023	<b>Calibration Due Date:</b> 14.FEB.2024
<b>Pit Depth Gauge - Maker:</b> New Tech	<b>Model:</b> NAA-4-M11118	<b>S. No.:</b> 97594	<b>Calibration Date:</b> 17-Aug-2023	<b>Calibration Due Date:</b> 16-Feb-2024

Sketch or picture (direct on this page  or attached )



UTM Results							
Position	Nominal Wall Thickness (mm)	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	-----	15.0	30.21	30.63	30.37	30.41	Accepted
A2	-----	15.0	30.75	30.59	31.05	30.39	Accepted
A3	-----	15.0	30.55	30.44	31.02	30.85	Accepted

**Result:**  
1- UTM WAS CARRIED OUT ON THE ABOVE-MENTIONED ITEM AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS AT THE TIME OF INSPECTION.

<b>Inspector Name:</b>	Abdullah Mofeed	<b>Reviewed by:</b>	Hasan Omran
<b>Qualification:</b>	ASNT Level II	<b>Date:</b>	09-01-2024
<b>Signature:</b>		<b>Signature:</b>	



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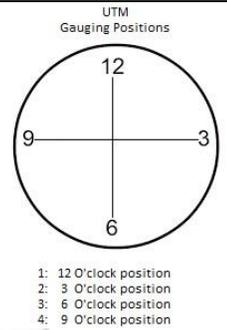
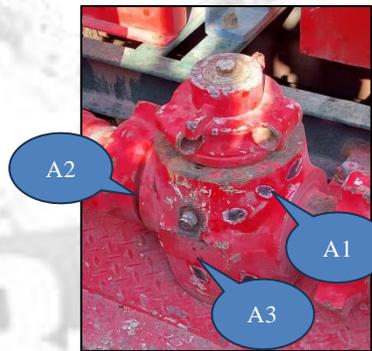


<b>Client:</b> Hilong Oil Services & Engineering	<b>Location:</b> Rig-99 / RU-495	<b>Inspection Date:</b> 02-Jan-2024
<b>Certificate No:</b> ATS-12-23-2486-UTM-004	<b>Work order and/or Job No.:</b> ATS-12-23-2486	<b>Inspection Due Date:</b> 01-Jan-2025

<b>Item Description:</b> 3" Low Torque Valve	
Serial No: 421807045	
<b>Relative Standards/Specifications:</b> ASTM E 797 & Client Specifications	<b>Material:</b> 30CrMoA Low carbon alloy steel
<b>Surface Condition:</b> Brushed and cleaned	<b>Surface Temperature:</b> 22 C°

Measuring Equipment				
<b>UTM Instrument - Maker:</b> HUATEC	<b>Model:</b> TG 4100	<b>S. No.:</b> 5500391	<b>Calibration Date:</b> 15.AUG.2023	<b>Calibration Due Date:</b> 14.FEB.2024
<b>Pit Depth Gauge - Maker:</b> New Tech	<b>Model:</b> NAA-4-M11118	<b>S. No.:</b> 97594	<b>Calibration Date:</b> 17-Aug-2023	<b>Calibration Due Date:</b> 16-Feb-2024

Sketch or picture (direct on this page  or attached )



UTM Results							
Position	Nominal Wall Thickness (mm)	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	-----	15.0	32.32	32.51	32.46	32.44	Accepted
A2	-----	15.0	32.41	32.48	32.29	32.45	Accepted
A3	-----	15.0	32.42	32.39	32.31	32.49	Accepted

**Result:**  
 1- UTM WAS CARRIED OUT ON THE ABOVE-MENTIONED ITEM AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS AT THE TIME OF INSPECTION.

<b>Inspector Name:</b>	Abdullah Mofeed	<b>Reviewed by:</b>	Hasan Omran
<b>Qualification:</b>	ASNT Level II	<b>Date:</b>	09-01-2024
<b>Signature:</b>		<b>Signature:</b>	



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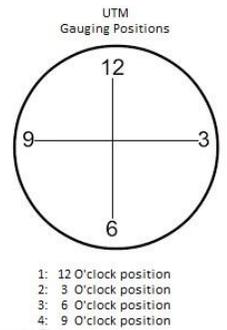
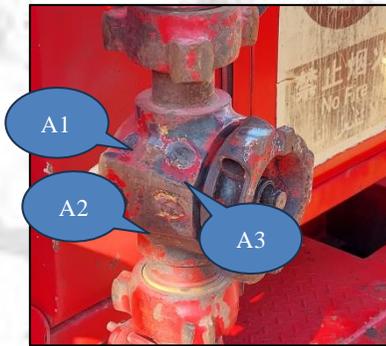


Client: <b>Hilong Oil Services &amp; Engineering</b>	Location: <b>Rig-99 / RU-495</b>	Inspection Date: <b>02-Jan-2024</b>
Certificate No: <b>ATS-12-23-2486-UTM-004</b>	Work order and/or Job No.: <b>ATS-12-23-2486</b>	Inspection Due Date: <b>01-Jan-2025</b>

<b>Item Description: 2" Low Torque Valve</b>	
<b>Serial No: 421807228</b>	
<b>Relative Standards/Specifications: ASTM E 797 &amp; Client Specifications</b>	<b>Material: 30CrMoA Low carbon alloy steel</b>
<b>Surface Condition: Brushed and cleaned</b>	<b>Surface Temperature: 22 C°</b>

Measuring Equipment				
<b>UTM Instrument - Maker: HUATEC</b>	<b>Model: TG 4100</b>	<b>S. No.: 5500391</b>	<b>Calibration Date: 15.AUG.2023</b>	<b>Calibration Due Date: 14.FEB.2024</b>
<b>Pit Depth Gauge - Maker: New Tech</b>	<b>Model: NAA-4-M11118</b>	<b>S. No.: 97594</b>	<b>Calibration Date: 17-Aug-2023</b>	<b>Calibration Due Date: 16-Feb-2024</b>

Sketch or picture (direct on this page  or attached )



UTM Results							
Position	Nominal Wall Thickness (mm)	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	-----	19.0	35.56	35.49	35.44	35.39	Accepted
A2	-----	19.0	35.42	35.22	35.36	35.43	Accepted
A3	-----	19.0	35.53	35.28	35.33	35.36	Accepted

**Result:**  
 1- UTM WAS CARRIED OUT ON THE ABOVE-MENTIONED ITEM AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS AT THE TIME OF INSPECTION.

<b>Inspector Name:</b>	<b>Abdullah Mofeed</b>	<b>Reviewed by:</b>	<b>Hasan Omran</b>
<b>Qualification:</b>	<b>ASNT Level II</b>	<b>Date:</b>	<b>09-01-2024</b>
<b>Signature:</b>		<b>Signature:</b>	



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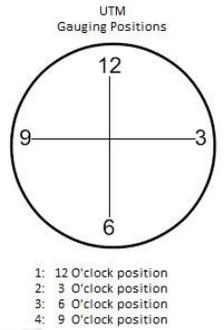
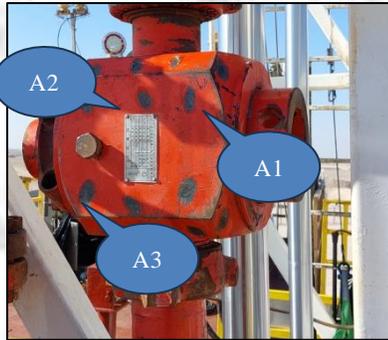


Client: <b>Hilong Oil Services &amp; Engineering</b>	Location: <b>Rig-99 / RU-495</b>	Inspection Date: <b>02-Jan-2024</b>
Certificate No: <b>ATS-12-23-2486-UTM-004</b>	Work order and/or Job No.: <b>ATS-12-23-2486</b>	Inspection Due Date: <b>01-Jan-2025</b>

<b>Item Description: 3" Low Torque Valve</b>	
<b>Serial No: 18060610002</b>	
Relative Standards/Specifications: <b>ASTM E 797 &amp; Client Specifications</b>	Material: <b>30CrMoA Low carbon alloy steel</b>
Surface Condition: <b>brushed and cleaned</b>	Surface Temperature: <b>22 C°</b>

Measuring Equipment				
UTM Instrument - Maker: <b>HUATEC</b>	Model: <b>TG 4100</b>	S. No.: <b>5500391</b>	Calibration Date: <b>15.AUG.2023</b>	Calibration Due Date: <b>14.FEB.2024</b>
Pit Depth Gauge - Maker: <b>New Tech</b>	Model: <b>NAA-4-M11118</b>	S. No.: <b>97594</b>	Calibration Date: <b>17-Aug-2023</b>	Calibration Due Date: <b>16-Feb-2024</b>

Sketch or picture (direct on this page  or attached )



UTM Results							
Position	Nominal Wall Thickness (mm)	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	-----	15.0	40.12	40.33	40.47	40.35	Accepted
A2	-----	15.0	40.42	40.52	40.41	40.27	Accepted
A3	-----	15.0	40.48	40.36	40.40	40.35	Accepted

**Result:**  
 1- UTM WAS CARRIED OUT ON THE ABOVE-MENTIONED ITEM AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS AT THE TIME OF INSPECTION.

Inspector Name:	Abdullah Mofeed	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	09-01-2024	
Signature:		Signature:		



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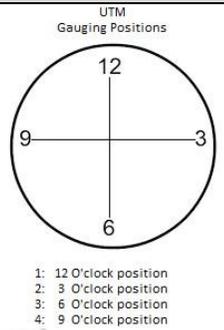
Client: <b>Hilong Oil Services &amp; Engineering</b>	Location: <b>Rig-99 / RU-495</b>	Inspection Date: <b>02-Jan-2024</b>
Certificate No: <b>ATS-12-23-2486-UTM-004</b>	Work order and/or Job No.: <b>ATS-12-23-2486</b>	Inspection Due Date: <b>01-Jan-2025</b>

**Item Description: 2" Manual Valve**  
**Serial No: 202211101**

**Relative Standards/Specifications: ASTM E 797 & Client Specifications**      **Material: 30CrMoA Low carbon alloy steel**  
**Surface Condition: brushed and cleaned**      **Surface Temperature: 22 C°**

Measuring Equipment				
UTM Instrument - Maker: <b>HUATEC</b>	Model: <b>TG 4100</b>	S. No.: <b>5500391</b>	Calibration Date: <b>15.AUG.2023</b>	Calibration Due Date: <b>14.FEB.2024</b>
Pit Depth Gauge - Maker: <b>New Tech</b>	Model: <b>NAA-4-M11118</b>	S. No.: <b>97594</b>	Calibration Date: <b>17-Aug-2023</b>	Calibration Due Date: <b>16-Feb-2024</b>

Sketch or picture (direct on this page  or attached )



**UTM Results**

Position	Nominal Wall Thickness (mm)	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	-----	19.0	22.11	21.95	21.88	22.07	Accepted
A2	-----	19.0	21.89	21.93	22.07	22.02	Accepted
A3	-----	19.0	21.95	22.09	22.02	21.99	Accepted

**Result:**  
 1- UTM WAS CARRIED OUT ON THE ABOVE-MENTIONED ITEM AND FOUND ALL ACTUAL WALL THICKNESS READINGS ACCEPTABLE ACCORDING TO CLIENT SPECIFICATIONS AT THE TIME OF INSPECTION.

Inspector Name:	Abdullah Mofeed	Reviewed by:	Hasan Omran	
Qualification:	ASNT Level II	Date:	09-01-2024	
Signature:		Signature:		

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International Well Control Forum



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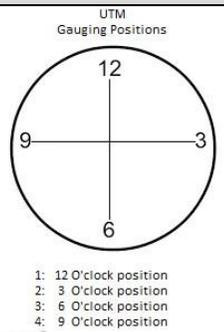


Client: <b>Hilong Oil Services &amp; Engineering</b>	Location: <b>Rig-99 / RU-495</b>	Inspection Date: <b>02-Jan-2024</b>
Certificate No: <b>ATS-12-23-2486-UTM-004</b>	Work order and/or Job No.: <b>ATS-12-23-2486</b>	Inspection Due Date: <b>01-Jan-2025</b>

Item Description: <b>2" Manual Valve</b>	
Serial No: <b>202305009</b>	
Relative Standards/Specifications: <b>ASTM E 797 &amp; Client Specifications</b>	Material: <b>30CrMoA Low carbon alloy steel</b>
Surface Condition: <b>brushed and cleaned</b>	Surface Temperature: <b>22 C°</b>

Measuring Equipment				
UTM Instrument - Maker: <b>HUATEC</b>	Model: <b>TG 4100</b>	S. No.: <b>5500391</b>	Calibration Date: <b>15.AUG.2023</b>	Calibration Due Date: <b>14.FEB.2024</b>
Pit Depth Gauge - Maker: <b>New Tech</b>	Model: <b>NAA-4-M11118</b>	S. No.: <b>97594</b>	Calibration Date: <b>17-Aug-2023</b>	Calibration Due Date: <b>16-Feb-2024</b>

Sketch or picture (direct on this page  or attached )



**UTM Results**

Position	Nominal Wall Thickness (mm)	Minimum Thickness (mm)	Measured Wall Thickness (mm)				Remarks
A1	-----	19.0	25.47	25.43	25.29	25.33	Accepted
A2	-----	19.0	25.39	25.36	25.41	25.37	Accepted
A3	-----	19.0	25.42	25.36	25.45	25.47	Accepted

**Result:**  
 1- UTM WAS CARRIED OUT ON THE ABOVE-MENTIONED ITEM AND FOUND ALL ACTUAL WALL THICKNESS READINGS **ACCEPTABLE** ACCORDING TO CLIENT SPECIFICATIONS AT THE TIME OF INSPECTION.

Inspector Name:	<b>Abdullah Mofeed</b>	Reviewed by:	<b>Hasan Omran</b>	
Qualification:	<b>ASNT Level II</b>	Date:	<b>09-01-2024</b>	
Signature:		Signature:		



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