

# AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

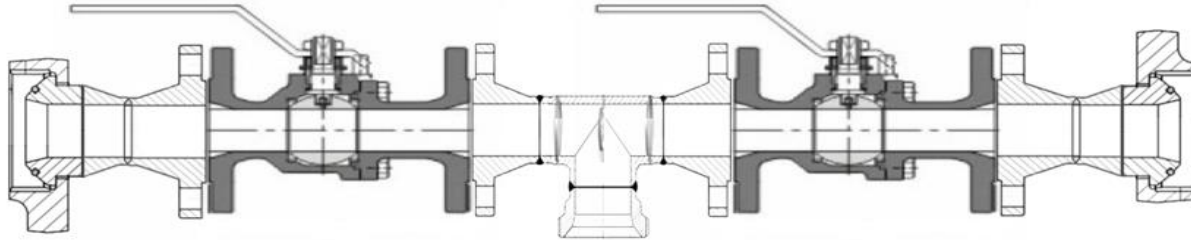
Basra, North Rumaila, Quality Control Yard - Iraq



## CERTIFICATE OF VISUAL AND WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	TAREEK ALSALEM	REPORT No.:	QC-25-05-TAS-NDT-DM-001
LOCATION:	TAREEK ALSALEM YARD	JOB NO :	5052025
WORK ORDER #	***	SPECIFICATION:	ASME B31.1-2024 LATEST EDITION / CUSTOMER SPECIFICATION
DATE OF INSPECTION :	Tuesday, May 6, 2025		
TYPE OF INSPECTION:	VISUAL INSPECTION AND WITNESS PRESSURE TEST		
DESCRIPTION:	DIVERTER MANIFOLD 1440 PSI	DIVERTER MANIFOLD SAP NO:	12032177
LOW PRESSURE TEST	100 Psi	HOLDING TIME:	05 MINUTES
MAXIMUM WORKING PRESSURE TEST	1440 Psi	HOLDING TIME:	15 MINUTES
Pump NO.:	EQ NO:13119220	CAL DUE DATE:	19.AUG.2025
Pressure Gauge NO.:	218230280019	CAL DUE DATE:	28.FEB.2026



ONLINE TRACEABILITY

### PRESSURE TEST WITNESS RESULT

BODY PRESSURE TEST	The Above Item was Pressure Tested up to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached
DOWNSTREAM PRESSURE TEST	The Above Item was Pressure Tested up to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached
UPSTREAM PRESSURE TEST	The Above Item was Pressure Tested up to 100 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

### PERSON DETAILS

### REVIEW BY

INSPECTOR NAME:	M.SHAHZAD AHMED	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	SAFETY ENGINEER, OI, VI,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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**AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED**

Basra, North Rumaila, Quality Control Yard - Iraq

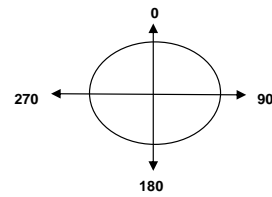
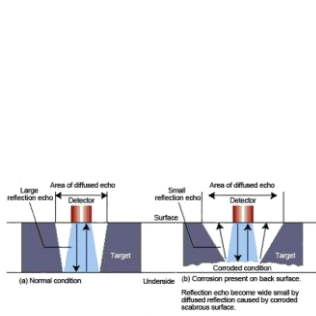


**CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>TAREEK AL SALEM</b>	REPORT NO.:	QC-25-05-TAS-NDT-DM-002
LOCATION:	TAREEK AL SALEM YARD	JOB NO :	5052025
WORK ORDER #	*****	SPECIFICATION:	ASTM E709-21 & ASTM E 797-21
DATE OF INSPECTION:	Monday, May 5, 2025	NEXT INSPECTION DATE:	<b>Tuesday, November 4, 2025</b>
TYPE OF INSPECTION:	<b>VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING</b>		

DESCRIPTION:	<b>BALON VALVE 4" 600 CL</b>	DIVERTER MANIFOLD SAP NO:	12032177
		SERIAL NO:	FCG-0036



ONLINE TRACEABILITY

\* ALL READINGS IN MM  
\*\*MINIMUM THICKNESS PROVIDED BY CUSTMER

ANGLE	WALL THICKNESS RESULT		MINIMUM THICKNESS IN MM
	A	B	
0°	12.84	13.26	6.5 MM
90°	12.72	12.77	
180°	12.95	13.14	
270°	13.01	12.88	

INSPECTION RESULT		
VT & MPI	Accepted	According to ASTM E709-21
UT	Accepted	According to ASTM E 797 -21

**Inspection Evaluation**

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable According to ASTM E709-21

U.T-The Above Item Was Found Acceptable As Per ASTM E797-21

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	07-OCT-2025	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	09-OCT-2025		Magnaflux	230408	APRIL,2026
UT THICKNESS GAUGE:	5500391	CAL DUE DATE	07-OCT-2025	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	08-OCT-2025		Magnaflux	230604	JUNE, 2026
ASTM Test Block:	1657	CAL DUE DATE	07-OCT-2025	Concentration Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3610 lux						

PERSON DETAILS		REVIEW BY			
INSPECTOR NAME:	M. Shehwan Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	NDT Level 2	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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**AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED**

Basra, North Rumaila, Quality Control Yard - Iraq

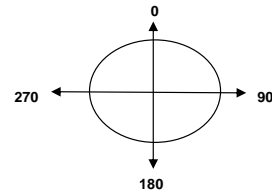
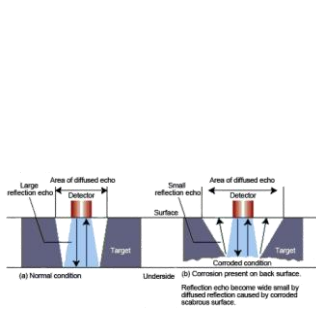


**CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>TAREEK AL SALEM</b>	REPORT NO.:	QC-25-05-TAS-NDT-DM-003
LOCATION:	TAREEK AL SALEM YARD	JOB NO :	5052025
WORK ORDER #	*****	SPECIFICATION:	ASTM E709-21 & ASTM E 797-21
DATE OF INSPECTION:	Monday, May 5, 2025	NEXT INSPECTION DATE:	<b>Tuesday, November 4, 2025</b>
TYPE OF INSPECTION:	<b>VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING</b>		

DESCRIPTION:	BALON VALVE 4" 600 CL	DIVERTER MANIFOLD SAP NO:	12032177
		SERIAL NO:	FCG-0038



ONLINE TRACEABILITY

\* ALL READINGS IN MM  
\*\*MINIMUM THICKNESS PROVIDED BY CUSTMER

ANGLE	WALL THICKNESS RESULT		MINIMUM THICKNESS IN MM
	A	B	
0°	12.43	12.20	6.5 MM
90°	12.72	12.80	
180°	12.77	12.08	
270°	12.29	12.84	

INSPECTION RESULT		
VT & MPI	Accepted	According to ASTM E709-21
UT	Accepted	According to ASTM E 797 -21

**Inspection Evaluation**

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable According to ASTM E709-21

U.T-The Above Item Was Found Acceptable As Per ASTM E797-21

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	07-OCT-2025	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	09-OCT-2025		Magnaflux	230408	APRIL,2026
UT THICKNESS GAUGE:	5500391	CAL DUE DATE	07-OCT-2025	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	08-OCT-2025		Magnaflux	230604	JUNE, 2026
ASTM Test Block:	1657	CAL DUE DATE	07-OCT-2025	Concentration Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3610 lux						

PERSON DETAILS		REVIEW BY			
INSPECTOR NAME:	M. Shehwan Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	NDT Level 2	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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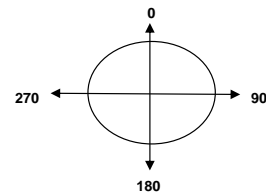
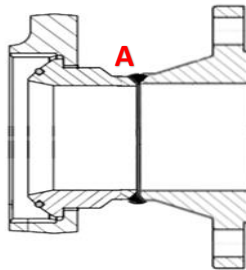
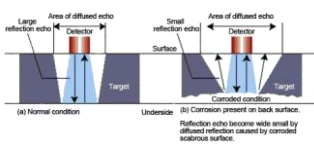


**CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>TAREEK AL SALEM</b>	REPORT NO.:	QC-25-05-TAS-NDT-DM-004
LOCATION:	TAREEK AL SALEM YARD	JOB NO :	5052025
WORK ORDER #	*****	SPECIFICATION:	ASTM E709-21 & ASTM E 797-21
DATE OF INSPECTION:	Monday, May 5, 2025	NEXT INSPECTION DATE:	<b>Tuesday, November 4, 2025</b>
TYPE OF INSPECTION:	<b>VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING</b>		

DESCRIPTION:	FLANGE: 4" 600 CL X 4' 206 WING	DIVERTER MANIFOLD SAP NO:	12032177
		SERIAL NO:	FCG-0031



\* ALL READINGS IN MM  
\*\*MINIMUM THICKNESS PROVIDED BY CUSTMER

ANGLE	WALL THICKNESS RESULT		MINIMUM THICKNESS
	A		
0°	8.59		4.04 MM
90°	8.51		
180°	8.71		
270°	8.73		

**INSPECTION RESULT**

VT & MPI	Accepted	According to ASTM E709-21
UT	Accepted	According to ASTM E 797-21

**Inspection Evaluation**

MPI -The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable According to ASTM E709-21

Note:MPI Wet Fluorescent inspection Thread With UltraViolet Light  
Magnetic Particle Inspection With A/C Hand Yoke Welds & Avaliable Areas

U.T-The Above Item Was Found Acceptable As Per ASTM E797-21

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25		Magnaflux	230408	APRIL,2026
UT THICKNESS GAUGE:	5500391	CAL DUE DATE	7-Oct-25	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25		Magnaflux	230604	JUNE, 2026
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
DC COIL:	22650	CAL DUE DATE	8-Oct-25		Magnaflux	230503	MAY,2026
UV BLACK LIGHT:	87521	CAL DUE DATE	9-Oct-25	Concentration of 14HF:		0.1 to 0.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3610 lux	UV BLACK LIGHT INTENSITY:	3060 µw/cm <sup>2</sup>	Concentration of 7HF:		1.2 to2.4 ml/100 ml	

**PERSON DETAILS**

**REVIEW BY**

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	NDT Level 1 MPI	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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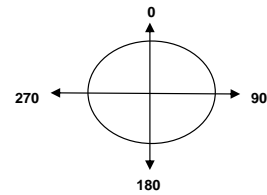
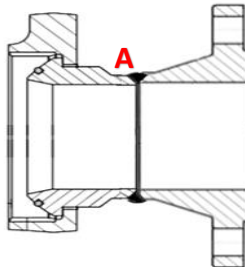
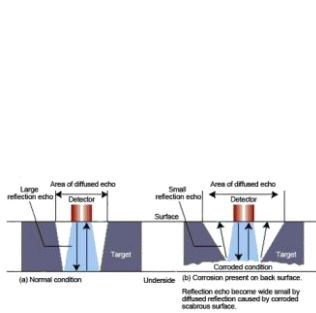


**CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>TAREEK AL SALEM</b>	REPORT NO.:	QC-25-05-TAS-NDT-DM-005
LOCATION:	TAREEK AL SALEM YARD	JOB NO :	5052025
WORK ORDER #	*****	SPECIFICATION:	ASTM E709-21 & ASTM E 797-21
DATE OF INSPECTION:	Monday, May 5, 2025	NEXT INSPECTION DATE:	<b>Tuesday, November 4, 2025</b>
TYPE OF INSPECTION:	<b>VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING</b>		

DESCRIPTION:	FLANGE: 4" 600 CL X 4' 206 WING	DIVERTER MANIFOLD SAP NO:	12032177
		SERIAL NO:	FCG-0032



\* ALL READINGS IN MM  
 \*\*MINIMUM THICKNESS PROVIDED BY CUSTOMER

ANGLE	WALL THICKNESS RESULT		MINIMUM THICKNESS
	A		
0°	8.47		4.04 MM
90°	8.44		
180°	8.23		
270°	8.19		

INSPECTION RESULT		
VT & MPI	Accepted	According to ASTM E709-21
UT	Accepted	According to ASTM E 797-21

**Inspection Evaluation**

MPI -The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable According to ASTM E709-21  
 Note:MPI Wet Fluorescent inspection Thread With UltraViolet Light  
 Magnetic Particle Inspection With A/C Hand Yoke Welds & Available Areas  
 U.T-The Above Item Was Found Acceptable As Per ASTM E797-21

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25		Magnaflux	230408	APRIL,2026
UT THICKNESS GAUGE:	5500391	CAL DUE DATE	7-Oct-25	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25		Magnaflux	230604	JUNE, 2026
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
DC COIL:	22650	CAL DUE DATE	8-Oct-25		Magnaflux	230503	MAY,2026
UV BLACK LIGHT:	87521	CAL DUE DATE	9-Oct-25	Concentration of 14HF:		0.1 to 0.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3610 lux	UV BLACK LIGHT INTENSITY:	3060 µw/cm <sup>2</sup>	Concentration of 7HF:		1.2 to2.4 ml/100 ml	

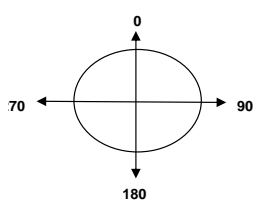
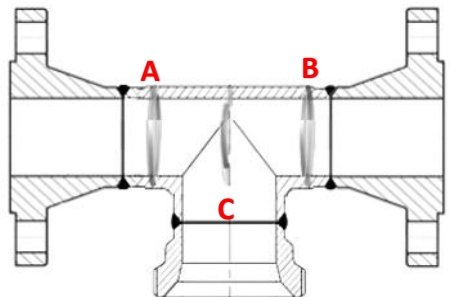
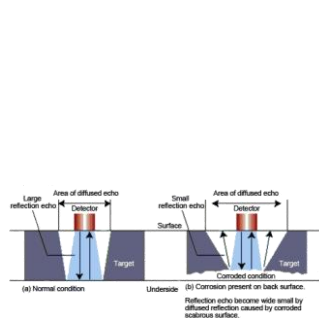
PERSON DETAILS		REVIEW BY		
INSPECTOR NAME:	M. Shalwan Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:
QUALIFICATION:	NDT Level 1	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN
SIGNATURE & STAMP:				DATE:

**CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>TAREEK AL SALEM</b>	REPORT NO.:	QC-25-05-TAS-NDT-DM-006
LOCATION:	TAREEK AL SALEM YARD	JOB NO :	5052025
WORK ORDER #	*****	SPECIFICATION:	ASTM E709-21 & ASTM E 797-21
DATE OF INSPECTION:	Monday, May 5, 2025	NEXT INSPECTION DATE:	<b>Tuesday, November 4, 2025</b>
TYPE OF INSPECTION:	<b>VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING</b>		

DESCRIPTION:	TEE: 4" 600 FLANGE X 4" 600 FLANGE X 4" 206 THREAD	DIVERTER MANIFOLD SAP NO:	12032177
		SERIAL NO:	FCG-0037



\* ALL READINGS IN MM  
\*\*MINIMUM THICKNESS PROVIDED BY CUSTMER

ANGLE	WALL THICKNESS RESULT			MINIMUM THICKNESS
	A	B	C	
0°	8.52	8.64	8.67	4.04 MM
90°	8.59	8.71	8.86	
180°	8.66	8.72	8.82	
270°	8.64	8.67	8.94	

INSPECTION RESULT		
VT & MPI	Accepted	According to ASTM E709-21
UT	Accepted	According to ASTM E 797-21

**Inspection Evaluation**

MPI -The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable According to ASTM E709-21  
 Note:MPI Wet Fluorescent inspection Thread With UltraViolet Light  
 Magnetic Particle Inspection With A/C Hand Yoke Welds & Availible Areas  
 U.T-The Above Item Was Found Acceptable As Per ASTM E797-21

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	7-Oct-25	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25		Magnaflux	230408	APRIL,2026
UT THICKNESS GAUGE:	5500391	CAL DUE DATE	7-Oct-25	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25		Magnaflux	230604	JUNE, 2026
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
DC COIL:	22650	CAL DUE DATE	8-Oct-25		Magnaflux	230503	MAY,2026
UV BLACK LIGHT:	87521	CAL DUE DATE	9-Oct-25	Concentration of 14HF:		0.1 to 0.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3610 lux	UV BLACK LIGHT INTENSITY:	3060 μw/cm <sup>2</sup>	Concentration of 7HF:		1.2 to2.4 ml/100 ml	

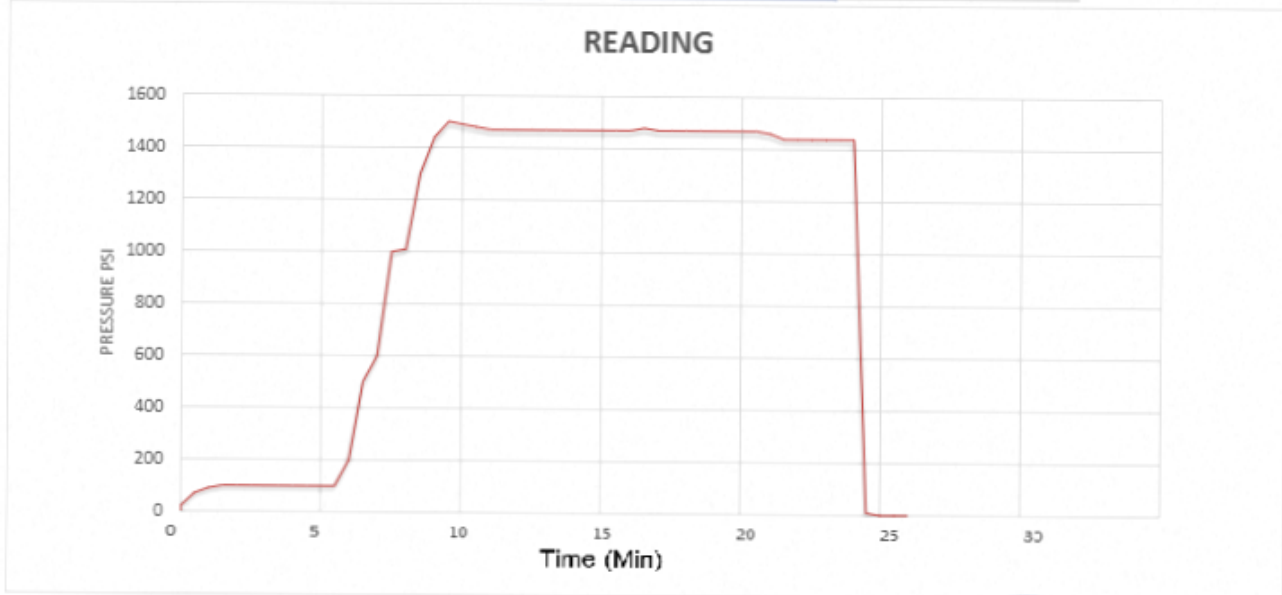
PERSON DETAILS		REVIEW BY		
INSPECTOR NAME:	M. Shalwan Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:
QUALIFICATION:	NDT Level 2	INSPECTION SUPERVISOR:	HANI ALI	HD&SIGN
SIGNATURE & STAMP:				DATE:



# Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Calibration Date	1-Mar-25
Range	30000 PSI

Run Info	
Start Time	9:01 AM
Stop Time	9:25 AM
Test Date	6-MAY-25
EQ NUMBER	12032177



TESTED BY : Ahmed Omran  
APPROVED BY: Roddy Haleem  
COMMENTS: Body/ Shell Test

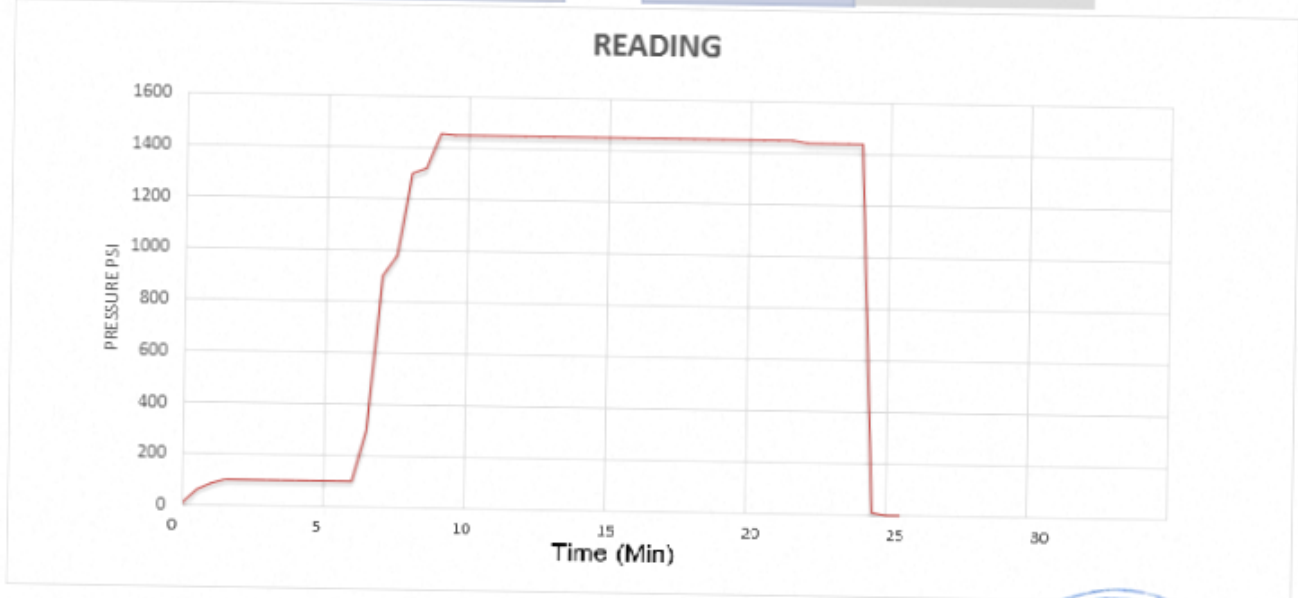
SIGN:   
SIGN: 



# Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Calibration Date	1-Mar-25
Range	30000 PSI

Run Info	
Start Time	10:13 AM
Stop Time	10:37 AM
Test Date	6-May-25
EQ NUMBER	12032177



TESTED BY : Ahmed Omran  
APPROVED BY: Roddy Haleem  
COMMENTS: Downstream Test

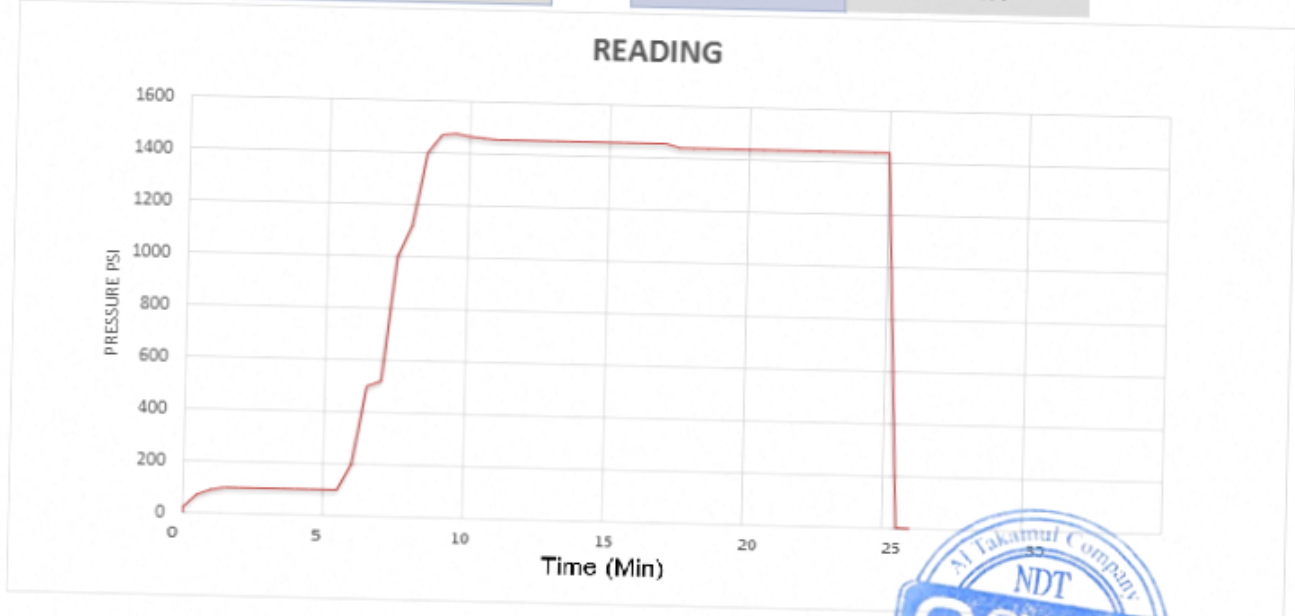
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# Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Calibration Date	1-Mar-25
Range	30000 PSI

Run Info	
Start Time	9:36 AM
Stop Time	10:02 AM
Test Date	6-May-25
EQ NUMBER	12032177



TESTED BY : Ahmed Omran  
APPROVED BY: Roddy Haleem  
COMMENTS: Upstream Test

SIGN: *[Signature]*  
SIGN: *[Signature]*