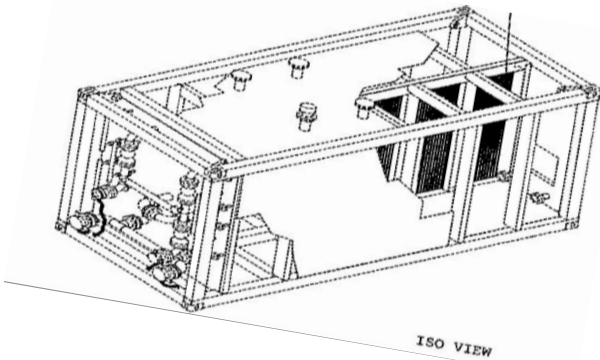




CERTIFICATE OF QUALIFICATION VISUAL AND WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-025-NDT MAJ-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-24-01-TSS-025-NDT MAJ-005
WORK ORDER #	326102055	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition , Manufacturing Date Book & ASME B31.3
DATE OF INSPECTION :	Wednesday, January 24, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND WITNESS PRESSURE TEST		
DESCRIPTION:	ATMOSPHERIC TANK 1440 PSI	SAP NO	11437684
BODY PRESSURE TEST	1440 psi	HOLDING TIME:	23 MINUTES
VALVE PRESSURE TEST	720 Psi	HOLDING TIME:	24 MINUTES
Pump S.N.::	13119220	CAL DUE DATE:	AUG.2024
Pressure Gauge NO.:	468066	CAL DUE DATE:	AUG.2024



ONLINE TRACEABILITY

INSPECTION RESULT

PRESSURE TEST 1:	The Above ATMOSPHERIC TANK Was Tested Up to 100 PSI A low Pressure Hold for 5 min And 1440 PSI Maximum Working pressure, Hold For 17 min no Leak was Found while testing & Pressure Was Stable According To Chart Recorder
PRESSURE TEST 2:	The Above Valve Was Tested Up to 100 PSI A low Pressure Hold for 5 min And 720 PSI Maximum Working pressure, Hold For 18 min no Leak was Found while testing & Pressure Was Stable According To Chart Recorder

PERSON DETAILS

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-105	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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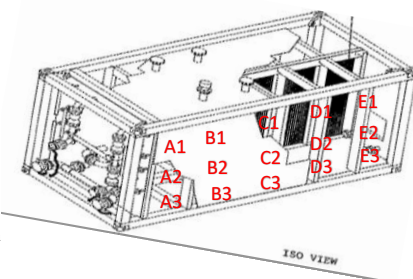
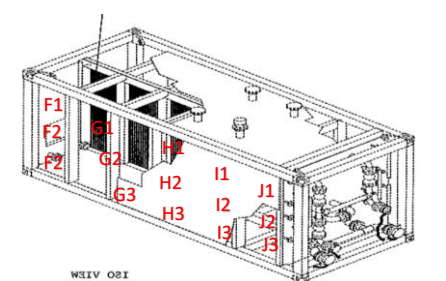


MAJOR INSPECTION CERTIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

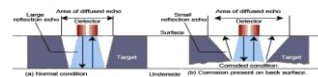
CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-025-NDT MAJ-002
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-24-01-TSS-025-NDT MAJ-005
WORK ORDER #	326102055	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
DATE:	Tuesday, January 23, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	ATMOSPHERIC TANK	SAP NO.:	11436784
MANUFACTURER:	PROFAB INDONESIA		

INSPECTION DETAILS



ONLINE TRACEABILITY

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



ANGLE	THICKNESS AT POSITION					NOMINAL THICKNESS	CORROSION ALLOWANCE	FINAL REMARKS
	A	B	C	D	E			
RIGHT SIDE TOP 1	8.27	8.29	8.20	8.23	8.32	9.5 MM	3 MM	SATISFACTORY
RIGHT MIDDEL 2	8.35	8.47	8.43	8.47	8.40			
RIGHT BOTTOM 3	8.39	8.46	8.30	8.37	8.25			
ANGLE	THICKNESS AT POSITION							
	F	G	H	I	J			
LEFT SIDE TOP 1	8.18	8.09	8.00	8.03	8.12			
LEFT SIDE MIDDEL 2	8.30	8.42	8.38	8.42	8.35			
LEFT SIDE BOTTOM 3	8.31	8.38	8.10	8.17	8.05			

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to ASTM E797, ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Manufacturing Date Book

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To ASTM E709 (70.94158)

U.T-The Above Item Was Found Acceptable As Per ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book

INSPECTION EQUIPMENT DETAILS					TECHNICAL DETAILS		
AC YOKE S.N:	201504048	CAL DUE DATE	14-Feb-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter	2722003	CAL DUE DATE	16-Feb-24		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	16-Feb-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	16-Feb-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3490 lux						

PERSON DETAILS

INSPECTOR NAME:	M. Shabaz Ali	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CPVT, UT, MPI, TSS, VI, ...	INSPECTION SUPERVISOR:	HANI ALI	DESIGN:	
SIGNATURE & STAMP:				DATE:	

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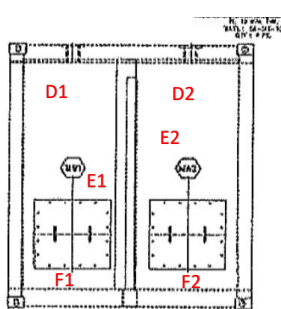
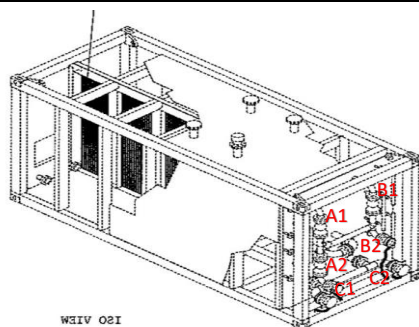


MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

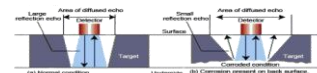
CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-025-NDT MAJ-003
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-24-01-TSS-025-NDT MAJ-005
WORK ORDER #	326102055	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
DATE:	Tuesday, January 23, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	ATMOSPHERIC TANK	SAP NO.:	11436784
MANUFACTURER:	PROFAB INDONESIA		

INSPECTION DETAILS



ONLINE TRACEABILITY

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



ANGLE	THICKNESS AT POSITION			MINIMUM THICKNESS	CORROSION ALLOWANCE	FINAL REMARKS
	A	B	C			
FRONT SIDE 1	9.44	9.46	9.37	8 MM	3 MM	SATISFACTORY
FRONT SIDE 2	9.52	9.64	9.42			
ANGLE	THICKNESS AT POSITION					
	D	E	F			
BACK SIDE 1	9.52	9.57	9.49			
BACK SIDE 2	9.39	9.42	9.54			

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to ASTM E797, ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Manufacturing Date Book

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To ASTM E709 (70.94158)

U.T-The Above Item Was Found Acceptable As Per ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504048	CAL DUE DATE	14-Feb-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Feb-24		Magnaflux	220602	JUN.2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	16-Feb-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	16-Feb-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3490 lux						

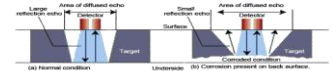
PERSON DETAILS

INSPECTOR NAME:	M. Shafraz Ali	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	AI, TSS, P, V, I	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS



INSPECTION RESULT

Inspection Evaluation




U.T-The Above Item Was Found Acceptable As Per ASME SECTION VIII DIV 1 Latest Edition & Manufacturing Date Book

PERSON DETAILS

M. Shahzad Ali
A-1111, T-11, U-11, V-11, VI-11
Office QC/FN/PT/077



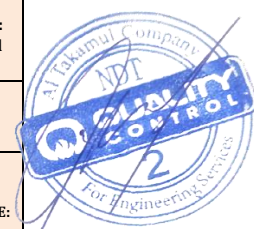
AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq



MAJOR INSPECTION CERTIFICATE									
Client:	HALLIBURTON(TSS)				Report No:	QC-24-01-TSS-025-NDT MAJ-005			
Location:	TSS (Burjesia Halliburton Camp)				Job Number:	QC-24-01-TSS-025-NDT MAJ-005			
Date:	Tuesday, January 23, 2024				Next Inspection Date:	ANNUAL INSPECTION			
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION				Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			
					UNIT DESCRIPTION:	3" BALLON VALVE			
					UNIT S/N:	4FDE			
					ATMOSPHERIC TANK SAP:	11437684	WORK ORDER NO:	326102055	
					INSPECTION RESULT :				
					VISUAL , THOROUGH EXAMINATION	Unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage			
					MAGNETIC PARTICLE INSPECTION	Avaliable critical areas inspected and found free from cracks and other defects			
					FINAL RESULTS	unit found satisfactory and free of defects at the time of inspection			
					COMMENT:	Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast 			
EQUIPMENT DETAILS					PERSON DETAILS			REVIEW BY	
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke			INSPECTOR NAME:	M.Shahzad Ahmed
S.No:	1657	S.No:	2722003	S.No:	201504048			SENIOR INSPECTOR:	NAVEED HUSSAIN
Cal Due Date:	14-Feb-24	Cal Due Date:	16-Feb-24	Cal Due Date:	14-Feb-24			QUALIFICATION:	ASNT LEVEL II MT & PT & VT
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025			SUPERVISOR:	HANI ALI
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025			CLIENT:	
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity		STAMP & SIGNATURE:		
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3562 Lux				

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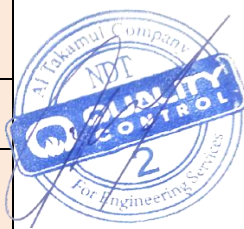
MAJOR INSPECTION CERTIFICATE

Client:	HALLIBURTON(TSS)	Report No:	QC-24-01-TSS-025-NDT MAJ-006						
Location:	TSS (Burjesia Halliburton Camp)	Job Number:	QC-24-01-TSS-025-NDT MAJ-005						
Date:	Tuesday, January 23, 2024	Next Inspection Date:	ANNUAL INSPECTION						
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION		Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)					
			UNIT DESCRIPTION:	3" BALLON VALVE					
			UNIT S/N:	6JXO					
			ATMOSPHERIC TANK SAP:	11437684	WORK ORDER NO:	326102055			
			INSPECTION RESULT :						
			VISUAL , THOROUGH EXAMINATION	Unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage					
			MAGNETIC PARTICLE INSPECTION	Available critical areas inspected and found free from cracks and other defects					
			FINAL RESULTS	unit found satisfactory and free of defects at the time of inspection					
			COMMENT:						
			Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast						
									
EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke	INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504048	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
Cal Due Date:	14-Feb-24	Cal Due Date:	16-Feb-24	Cal Due Date:	14-Feb-24		STAMP & SIGNATURE:	CLIENT:	
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025				
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025				
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity				
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3562 Lux				

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**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**
Basra, North Rumaila, Quality Control Yard - Iraq



MAJOR INSPECTION CERTIFICATE									
Client:	HALLIBURTON(TSS)				Report No:	QC-24-01-TSS-025-NDT MAJ-007			
Location:	TSS (Burjesia Halliburton Camp)				Job Number:	QC-24-01-TSS-025-NDT MAJ-005			
Date:	Tuesday, January 23, 2024				Next Inspection Date:	ANNUAL INSPECTION			
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION				Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			
					UNIT DESCRIPTION:	3" BALLON VALVE			
					UNIT S/N:	OFDO			
					ATMOSPHERIC TANK SAP:	11437684	WORK ORDER NO:	326102055	
					INSPECTION RESULT :				
					VISUAL , THOROUGH EXAMINATION	Unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage			
					MAGNETIC PARTICLE INSPECTION	Avaliable critical areas inspected and found free from cracks and other defects			
					FINAL RESULTS	unit found satisfactory and free of defects at the time of inspection			
					COMMENT:	Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast			
									
EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke	INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504048	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
Cal Due Date:	14-Feb-24	Cal Due Date:	16-Feb-24	Cal Due Date:	14-Feb-24				
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025				
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025				
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity	STAMP & SIGNATURE:		CLIENT:	
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3562 Lux				

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Corporate Partner



Address: Noth Rumaila, Al Takamul Yard
Contact: +9647810009138

Tel: +9647810009138 / +9647834964657

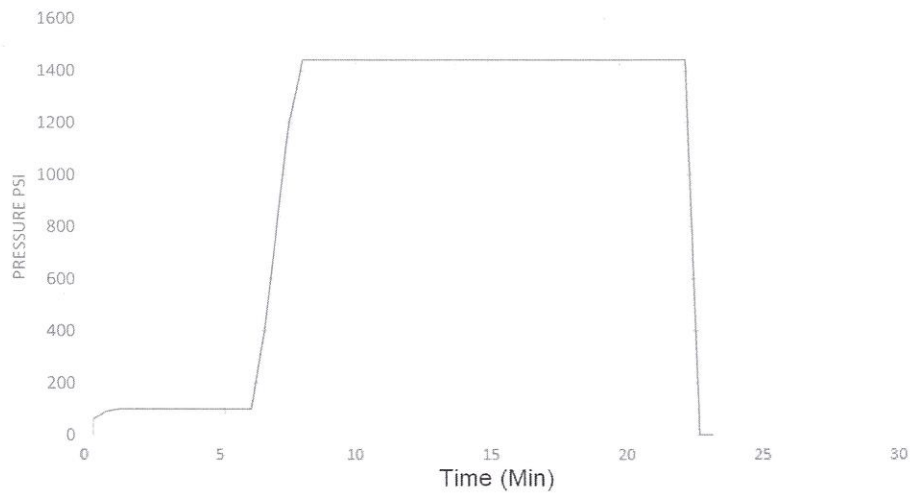
Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com

Data Collection Report

Gauge Information	
Serial Number	468066
Model	XP2I
Message Store	TSS test area
Units	PSI
SCALE	15000 PSI

Run Info	
Start Time	8:30 AM
Stop Time	8:53 AM
Test Date	24-Jan-24
EQ NUMBER	11437684
LAST CALIB	2.Aug.2023

READING



TESTED BY : Haider Emad
APPROVED BY: Khaldoon Asad
COMMENTS: Body Test

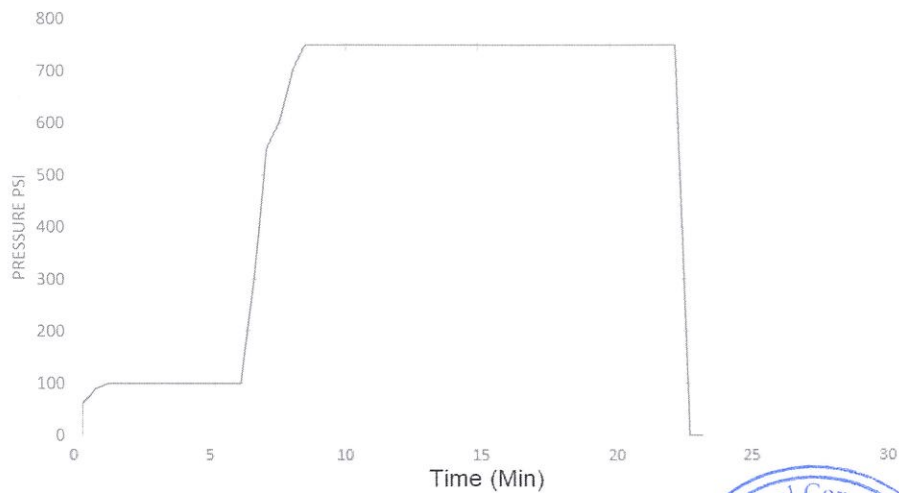


Data Collection Report

Gauge Information	
Serial Number	468066
Model	XP2I
Message Store	TSS test area
Units	PSI
SCALE	15000 PSI

Run Info	
Start Time	9:00 AM
Stop Time	9:24 AM
Test Date	24-Jan-24
EQ NUMBER	11437684
LAST CALIB	2.Aug.2023

READING



TESTED BY : Haider Emad
APPROVED BY: Khaldoon Asad
COMMENTS: Valve Test

