



MAJOR INSPECTION CERTIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-04-TSS-MAJ-NDT-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO.:	110424
WORK ORDER #	326452650	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME SECTION V ARTICLE 5,10 & 27 & ASME B31.1 & OEM DATA
INSPECTION DATE:	Thursday, April 11, 2024	NEXT INSPECTION DATE :	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION, MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING & WITNESS PRESSURE TEST		

DESCRIPTION:	FLOW HEAD 3 1/16" 10K	SAP NO.:	11511673
MANUFACTURER:	WORD WIDE OIL FIELD	MANUFACTURER SERIAL NO:	106271-1
Max. Working Pressure:	10,000 PSI	Holding Time:	19 Min
Low pressure:	300 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024

PARTS SR.NO:	PARTS DESCRIPTION:	ACTUAL MEASUREMENT	OEM MEASUREMENT
SW-6382-1	LIFTING SUB 5 1/2"-4 ACME PIN X BOX	ID 3.040"	MAX ID 3.090"
		OD 5.032"	MINI OD 5.00"
		SEAL AREA DIA 5.192"	MINI DIA 5.177"
106271-1-1-10-1	LOWER MASTER VALVE 5 1/2"- 4 ACME BOX X BOX	ID 3.023"	MAX ID 3.060"
		OD 7.592"	MINI OD 7.500"
		THICKNESS 2.787 "	THICKNESS MINI 1.880"
		THICKNESS 1.883 "	THICKNESS MINI 1.250"
TSS-222	CROSS OVER SUB 5 1/2"- 4 ACME PIN X BOX	ID 3.036"	MAX ID 3.090"
TSS-221	SWIVEL 5 1/2"- 4 ACME PIN X PIN	ID 3.031"	MAX ID 3.090"
106271-1	FLOW HEAD BLOCK 5 1/2"- 4 ACME BOX X BOX	THICKNESS 1.845 "	THICKNESS MINI 1.250"
M35379-2	FLOW LINE 3 1/16" X 3" 1502 WING	THICKNESS 1.682 "	THICKNESS MINI 1.600"
135418-1	KILL LINE 3 1/16" X 3 1/16"	THICKNESS 1.654 "	THICKNESS MINI 1.600"

INSPECTION RESULT

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

NOTE:MPI Wet Fluorescent inspection Thread With UltraViolet Light

U.T-The Above Item Was Found Acceptable As Per OEM DATA & ASME SECTION V ARTICLE 5 (ASTM E 797)

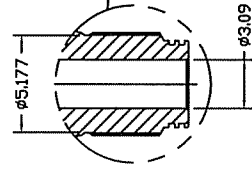
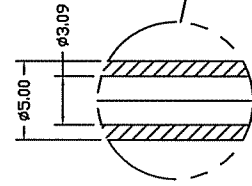
Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 10.000 psi Hold 19 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	12-Aug-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	14-Aug-24		Magnaflux	220602	JUN,2025
DC COIL:	22650	CAL DUE DATE	12-Aug-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UV BLACK LIGHT:	1898977	CAL DUE DATE	12-Aug-24		Magnaflux	220605	JULY,2025
INTENSITY METER:	1608000134	CAL DUE DATE	12-Aug-24	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24		Magnaflux	220306	March,2025
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24	Concentration of 14HF:		0.1 to 0.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3562 Lux	UV BLACK LIGHT INTENSITY:	3010 µw/cm²	Concentration of 7HF:		1.2 to 2.4 ml/100 ml	

PERSON DETAILS		REVIEW BY			
INSPECTOR NAME:	M.SHAHZAD AHMED	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	AS	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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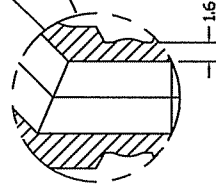
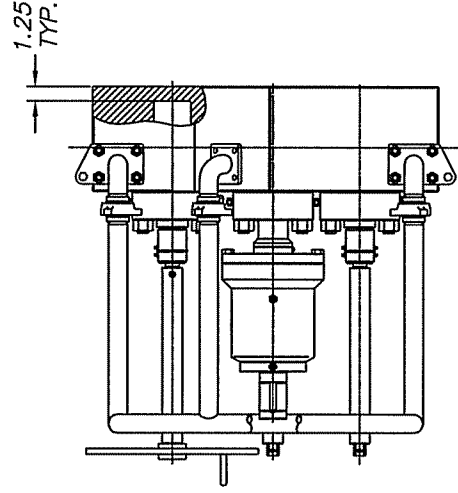




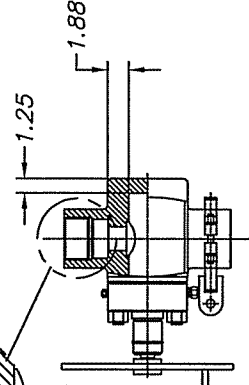
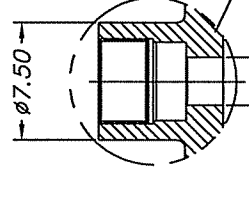
5 1/2"-4 ACME PIN
TYP.



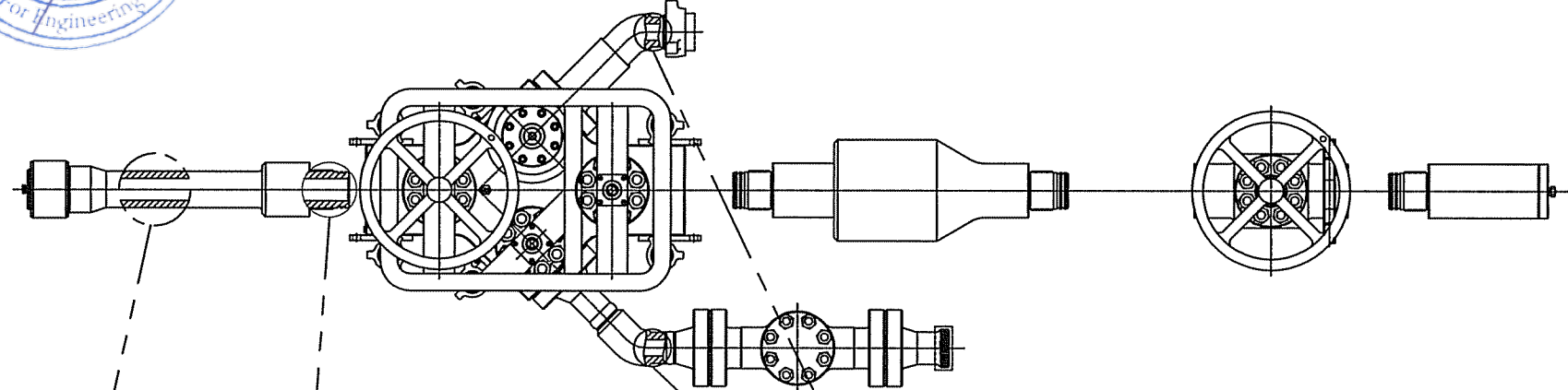
FLOWHEAD
BLOCK



5 1/2"-4 ACME BOX
TYP.



LOWER
MASTER
VALVE




NOTES

- ALL DIMENSIONS SHOWN ARE MAX PERMISSIBLE I.D. & THICKNESS WHERE APPLICABLE

REVISIONS		
NO	DATE	BY
0	06/09/10	RM

TOLERANCES (EXCEPT WHERE NOTED)	
FRACTION	± 1/64
DECIMAL 0.X	± .030
0.XX	± .015
0.XXX	± .005
ANGULAR	± 1/2
M/C FINISH	125
BREAK ALL SHARP CORNERS	


 WORLDWIDE OILFIELD MACHINE INC.
11809 CANEMONT, HOUSTON, TX 77035.



SCALE: NONE
DATE: 06/09/10
APPROVED BY

DRAWN BY: DV
CHK. BY:

FLOWHEAD, 3 1/16"-10M MODEL 200M H₂S
(WALL THICKNESS)

HALLIBURTON

DRAWING NUMBER
M3600-WT 

MAJOR INSPECTION CERTIFICATE											
Client:		HALLIBURTON(TSS)			Report No:		QC-24-04-TSS-MAJ-NDT-002				
Location:		TSS (Burjesia Halliburton Camp)			WO Number:		326452650				
Date:		Thursday, April 11, 2024			Next Inspection Date:		ANNUAL INSPECTION				
Type Of Inspection:		VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST			Specification:		ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API6A				
				UNIT DESCRIPTION:		BLIND FLANGE 3 1/16"					
				UNIT S/N QTY 3:		M3894-14, M3394-22, M3394-6					
				Pump S.N.:		13119220 Cal DUE. AUG.2024		Pressure Gauge NO.:		468066 Cal DUE. AUG.2024	
				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											
Pressure Test-The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 10,000 psi Hold 19 min no Leak was Realized while testing & Pressure Was Stable According To Chart Recorder Attached											
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:	201504052						
Cal Due Date:	12-Aug-24	Cal Due Date:	14-Aug-24	Cal Due Date:	12-Aug-24		QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI		
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025						
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025		STAMP & SIGNATURE:	CLIENT:			
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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MAJOR INSPECTION CERTIFICATE

Client:	HALLIBURTON(TSS)			Report No:	QC-24-04-TSS-MAJ-NDT-003				
Location:	TSS (Burjesia Halliburton Camp)			WO Number:	326452650				
Date:	Thursday, April 11, 2024			Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST			Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API6A				
	UNIT DESCRIPTION:			SSV FLANGE 3 1/16"					
	UNIT S/N:			10383-802477-34					
	Pump S.N.:		13119220 Cal DUE. AUG.2024		Pressure Gauge NO.:		468066 Cal DUE. AUG.2024		
	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								
	Pressure Test-The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 10,000 psi Hold 19 min no Leak was Realized while testing & Pressure Was Stable According To Chart Recorder Attached								
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:	201504052			QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:
Cal Due Date:	12-Aug-24	Cal Due Date:	14-Aug-24	Cal Due Date:	12-Aug-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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MAJOR INSPECTION CERTIFICATE

Client:	HALLIBURTON(TSS)	Report No:	QC-24-04-TSS-MAJ-NDT-004		
Location:	TSS (Burjesia Halliburton Camp)	WO Number:	326452650		
Date:	Thursday, April 11, 2024	Next Inspection Date:	ANNUAL INSPECTION		
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION & WITNESS PRESSURE TEST	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API6A		
		UNIT DESCRIPTION:	FLANGE 3 1/16" X 3" 1502 THREAD		
		UNIT S/N:	M0073-2-2		
		Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024
		INSPECTION RESULT :			
		VISUAL , THOROUGH EXAMINATION	Unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage		
MAGNETIC PARTICLE INSPECTION	Thread & 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:			
		(MPI Wet Fluorescent Inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast			
		Pressure Test- The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 10,000 psi Hold 19 min no Leak was Realized while testing & Pressure Was Stable According To Chart Recorder Attached			

EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3010 μw/cm ²	INSPECTOR NAME:	M.SHAHZAD AHMED	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.NO:	201504052	S.NO:	22650	S.NO:	1898977	QUALIFICATION: ASNT LEVEL II MT & PT & VT		SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024			CLIENT:	
FLUORESCENT 14HF	Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025	STAMP & SIGNATURE:			
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	EXPIRE DATE:	JUN,2025				
TECHNICAL DETAILS					Black Magnetic Ink Manufacture:7HF				
Digital Lux Meter WHITE LIGHT INTENSITY:					Batch No:220605				
3562 Lux/S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml							
Cal Due Date:14.AUG.2024	Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml		EXPIRE DATE:	Jul-25				

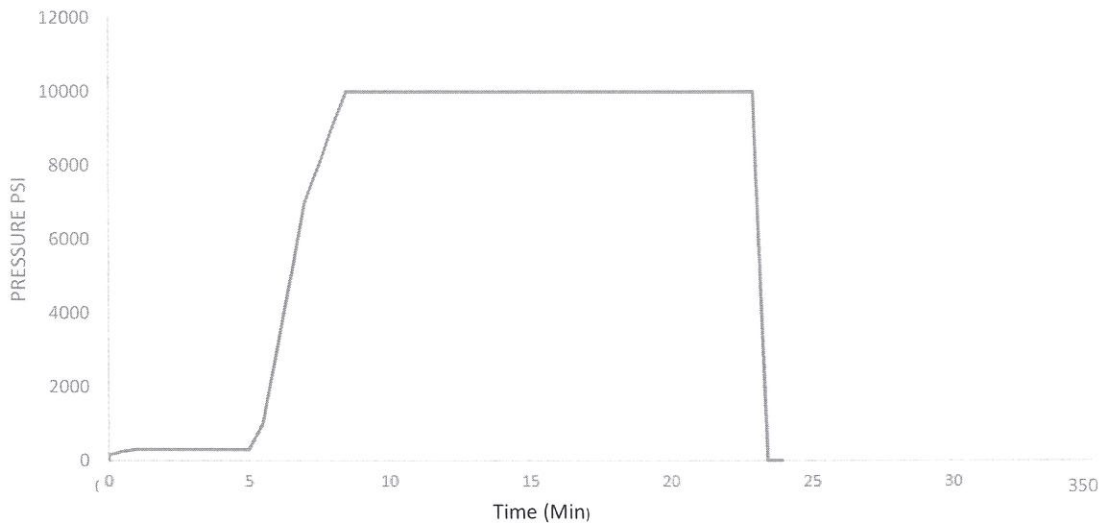
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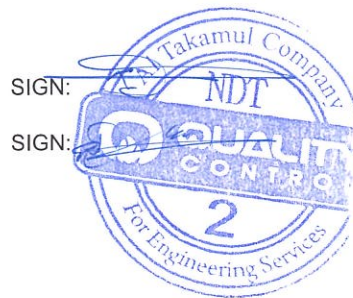
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Serial Number	468066
Model	XP2I
Message Store	TSS test area
Units	PSI
SCALE	15000 PSI

Run Info	
Start Time	8:30 AM
Stop Time	8:54 AM
Test Date	13-Apr-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Ahmed Fouad
COMMENTS: Body Test

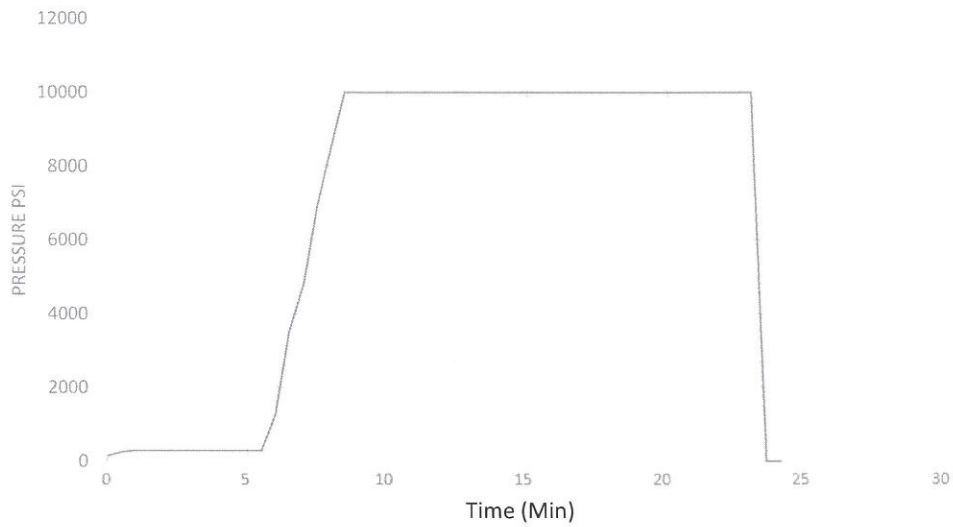


Data Collection Report

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	13-Apr-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Ahmed Fouad
COMMENTS: SV, KWV and PWV closed,UMV and LMV open.

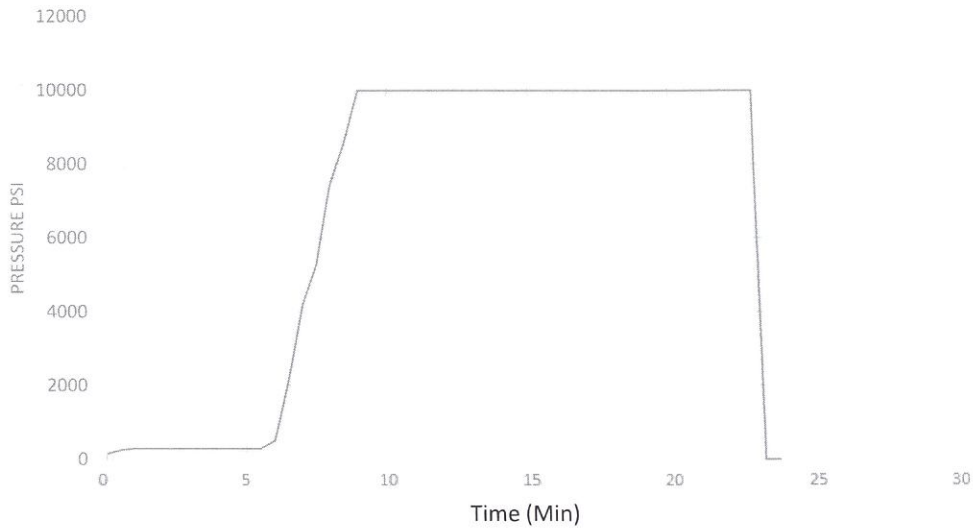


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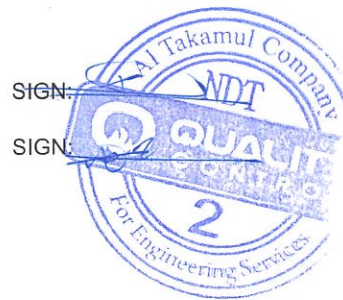
Gauge Information	
Serial Number	468066
Model	XP2I
Message Store	TSS test area
Units	PSI
SCALE	15000 PSI

Run Info	
Start Time	9:30 AM
Stop Time	9:54 AM
Test Date	13-Apr-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Ahmed Fouad
COMMENTS: SV and PWV closed. KWV open, UMV and LMV open

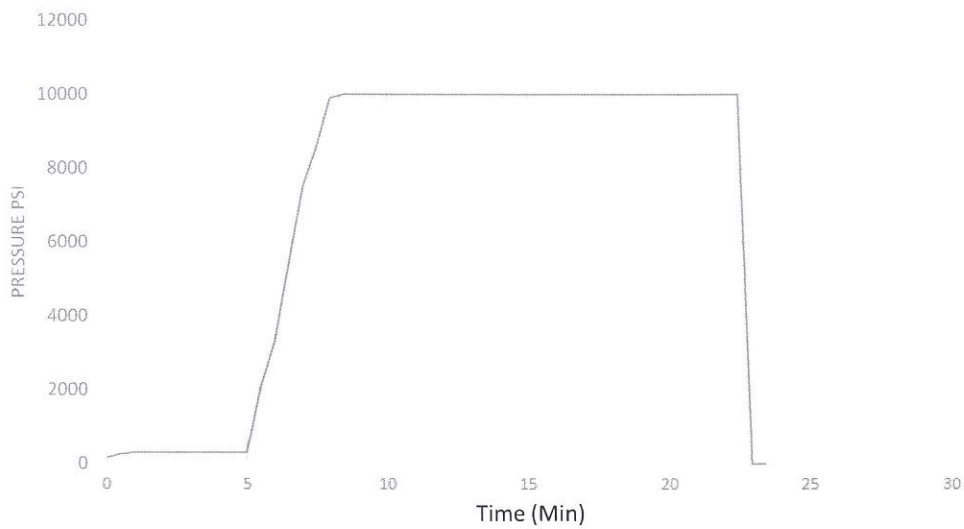


Data Collection Report

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

Run Info	
Start Time	10:00 AM
Stop Time	10:24 AM
Test Date	13-Apr-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Ahmed Fouad
COMMENTS: UMV closed, LMV open.

SIGN:

SIGN:

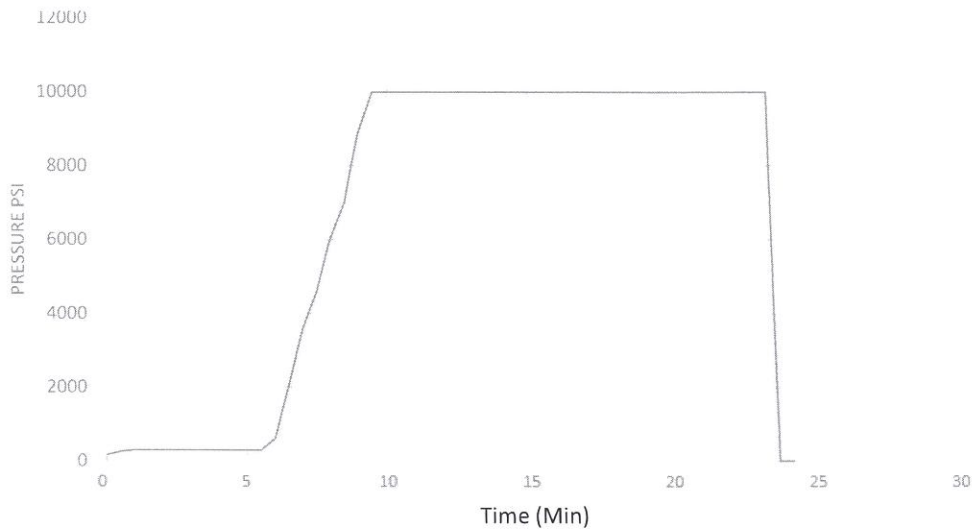


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Gauge Information	
Serial Number	468066
Model	XP2I
Message Store	TSS test area
Units	PSI
SCALE	15000 PSI

Run Info	
Start Time	10:30 AM
Stop Time	10:54 AM
Test Date	13-Apr-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Ahmed Fouad
COMMENTS: LMV closed. Test from below LMV

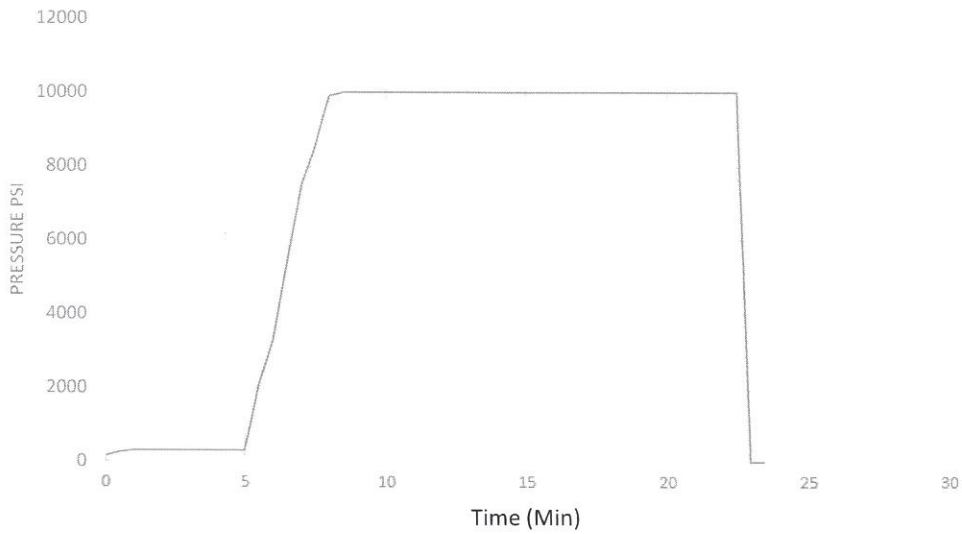


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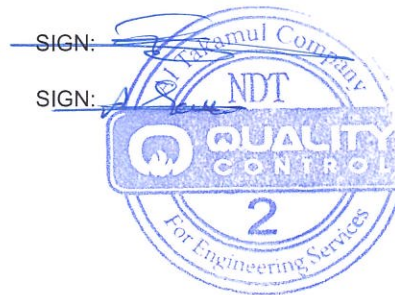
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Serial Number	468066
Model	XP2I
Message Store	TSS test area
Units	PSI
SCALE	15000 PSI

Run Info	
Start Time	11:00 AM
Stop Time	11:24 AM
Test Date	13-Apr-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Ahmed Fouad
COMMENTS: SV, PWV & LMV closed. KVV open, UMV open

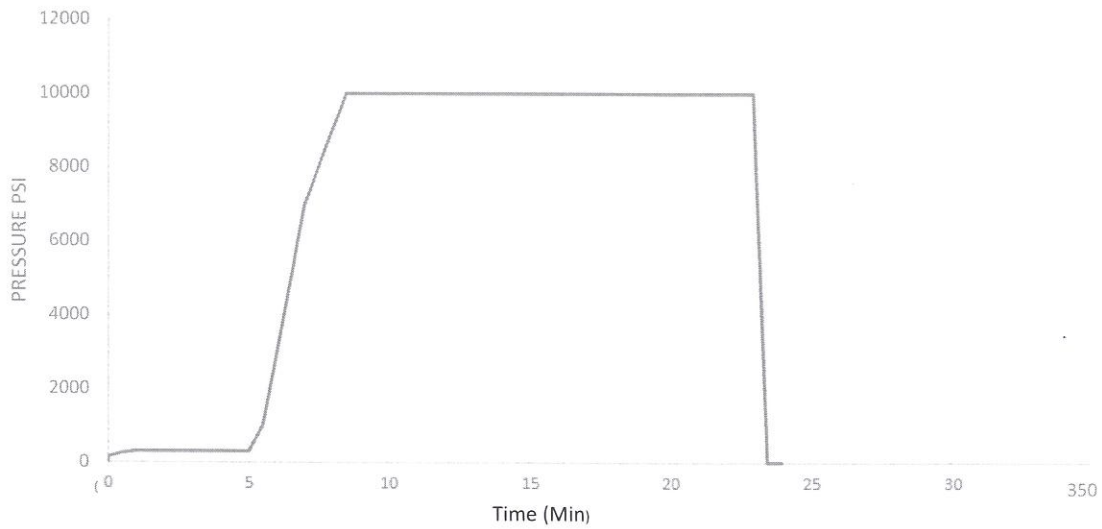


Data Collection Report

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

Run Info	
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Stop Time	11:54 AM
Test Date	13-Apr-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

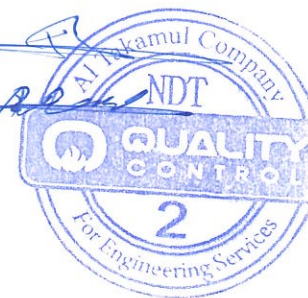
READING



TESTED BY : Tarek Bekhit
APPROVED BY: Ahmed Fouad
COMMENTS: SV, PWV & UMV closed. KWV open.

SIGN:

SIGN:

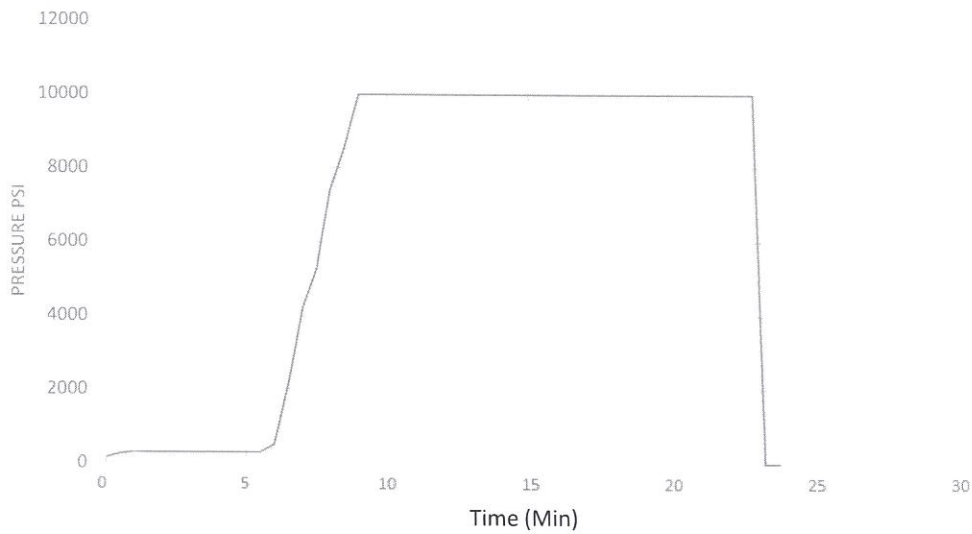


Data Collection Report

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

Run Info	
Start Time	12:00 PM
Stop Time	12:24 PM
Test Date	13-Apr-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Ahmed Fouad
COMMENTS: KWV closed. Test from Kill Wing side

SIGN:

SIGN:

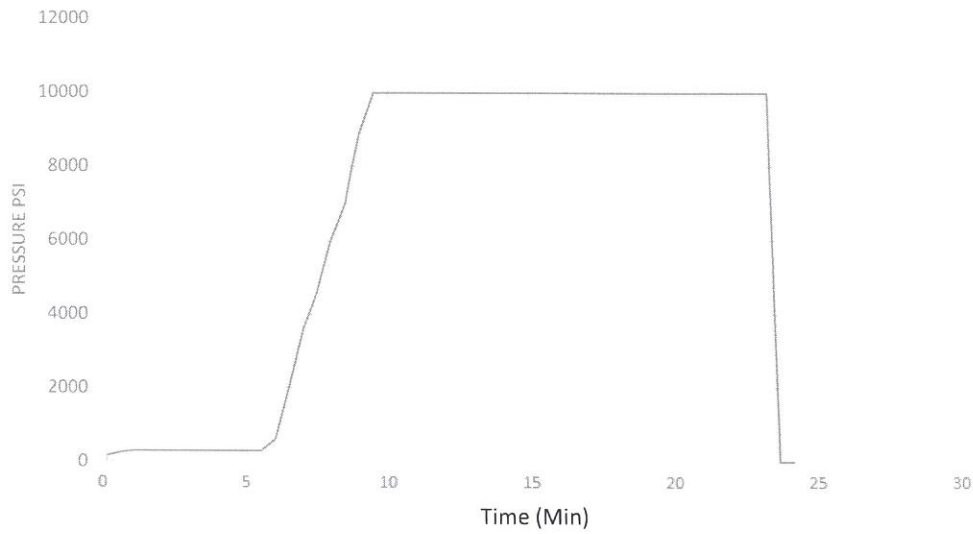


Data Collection Report

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

Run Info	
Start Time	12:30 PM
Stop Time	12:54 PM
Test Date	13-Apr-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Ahmed Fouad
COMMENTS: SV closed. Test from SV (top) side

SIGN:

SIGN:

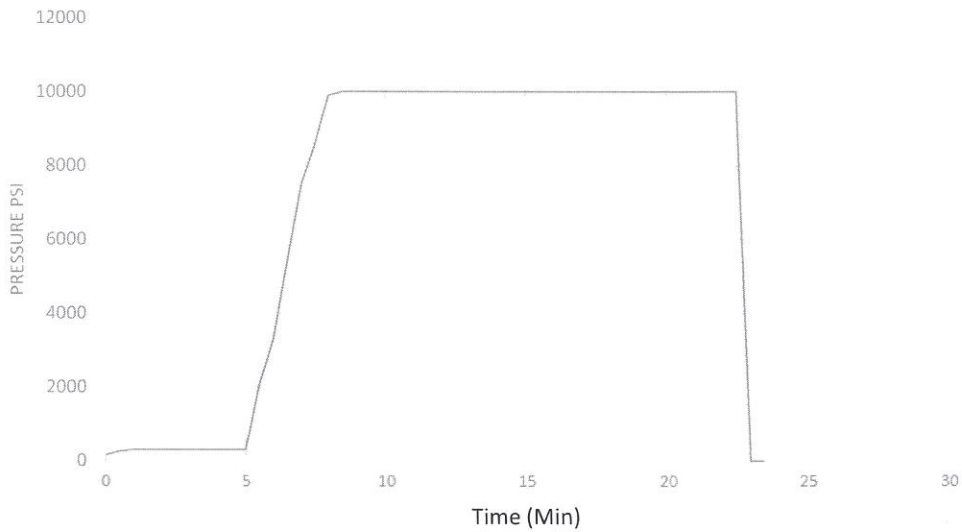


Data Collection Report

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

Run Info	
Start Time	1:00 PM
Stop Time	1:24 PM
Test Date	13-Apr-24
EQ NUMBER	11511673
LAST CALIB	2.Aug.2023

READING



TESTED BY : Tarek Bekhit
APPROVED BY: Ahmed Fouad
COMMENTS: PWV closed. Test from PWV side

SIGN: 

SIGN: 

