AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

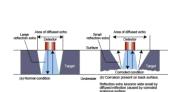
Basra, North Rumaila, Quality Control Yard - Iraq

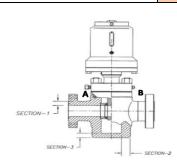


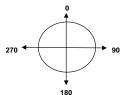
MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:		HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT-MAJ-001		
LOCATION:		TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ACTN4 F700	& ASTM E797 & ASME B31.1	
WORK ORDER #		326631916	SPECIFICATION:	ASTIVIE709	& ASTIVIE797 & ASIVIE BS1.1	
DATE OF INSP:		Thursday, May 23, 2024	INSP. DUE DATE:	AN	NUAL INSPECTION	
TYPE OF INSPECTION:		VISUAL INSPECTION, PRESSURE TEST AND MAGNET	IC PARTICLE INSPEC	TION AND ULTRASON	IIC THICKNESS GAUGING	
DESCRIPTION	1 :	SSV 3 1/16" 10K/H2S	SAP	NO:	11483046	
MANUFACTUR	MANUFACTURER: WORLD WIDE OIL FIELD		SERIAL NO:		106275-2	
		INSPECTION DET	'AILS			
Max. Working Pre	ssure:	10,000 PSI	Holding	g Time:	19 Min	
Low pressure):	300 PSI	Holding	g Time:	05 Min	
Pump S.N.:	.N.: 13119220 Cal DUE. AUG.2024		Pressure Gauge NO.:		468066 Cal DUE. AUG.2024	









- A:12'O CLOCK / FORWARD B:3'O CLOCK / CENTER C:6'O CLOCK / AFT
- * ALL READINGS IN INCH
 **MINIMUM THICKNESS PROVIDED BY CUSTMER

POINTS			THICKNESS	AT POSITION			MINIMUM THICKN	ESS
	SECTION-1 A	SEC	TION-1 B	SECTION-2	SECTION-3	SECTION-1	SECTION-2	SECTION-3
0°	1.282	1.285	1.345	1.945	1.815	1.060''	1.450''	1.250"
90°	1.275	1.252	1.325	1.954	1.821	1.060"	1.450''	1.250"
180°	1.269	1.245	1.315	1.955	1.825	1.060"	1.450''	1.250"
270°	1.267	1.229	1.317	1.956	1.825	1.060"	1.450''	1.250"
				INSPECTION RES	ULT			
VT & MPI	Acc	ented			* ACCORDING	TO ASTM E709)	

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to ASTM E 797
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Halliburton Acceptance Criteria
		Inspection Evaluation

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

U.T-The Above Item Was Found Acceptable As Per 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			TE	CHNICAL DET	'AILS
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast	MANUFACTUR E	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24	WCP-2	Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic	MANUFACT URE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24	Ink 7HF	Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent M	lagnetic Ink	1.2	to 2.4 ml/100 ml
WHITE LIGHT INTENSITY:	3480 lux			7H	F	1.2	to 2.4 iii/100 iii
		PERSON DETAI	LS				
INSPECTOR NAME:	17 Ababur	SENIOR INSPECTOR:	M.SHAZAD		CLIENT:		
QUALIFICATION:	SNT I M, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI		HB&SIGN		
SIGNATURE & STAMP:	Or Ingineering				DATE:		
Original - Client Files Co	py Area Office QC/FN/PT/07	77 Rev.00 DATED 07.NOV. 2021					



















Al TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED





	MAJOR INSE	PECTION CEI	RIFICA	TE
Client:	HALLIBURTON (TSS)	Report No:		QC-25-05-TSS-NDT-MAJ-002
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER		326631916
Date:	Thursday, May 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) & API 6A
		UNIT DESCRIPT	ION:	FLANGE 3 1/16" 10K X 3" 1502 WING



UNIT DESCRIPTION:

FLANGE 3 1/16" 10K X 3" 1502 WING

UNIT S/N:

M29520

SSV S/N:

11483046

INSPECTION RESULT:

VISUAL, THOROUGH EXAMINATION

WAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONEON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION

Thread & Groove areas inspected and found free from cracks and other defects

COMMENT:

FINAL RESULTS

(MPI Wet Fluorescent inspection Thread With UltraViolet Light)

Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast



		EQUIPM	IENT DETAILS				PERSO	ON DETAILS		REVIEW BY
EQUIPMENT:	AC, HAND Yoke	EQUIPMENT :	ASTM Test Block	EQUII	PMENT:	UV BLACK LIGHT: 3140 µw/cm²	INSPECTOR NAME: Usman Shabbir	Compa	SENIOR INSPECTOR:	M.SHAZAD
S.NO:	201504048	S.NO:	1657	S	.NO:	1898977				
Cal Due Date:	14.0CT.2024	Cal Due Date:	14.0CT.2024	Cal D	ue Date:	14.0CT.2024	QUALIFICATION: ASNT LEVEL II	CONTROL	SUPERVISOR:	HANI ALI
FLUORES	SCENT 14HF	Magnaflux	Batch No:	220306	EXPIRE DA	MARCH,2025	MT & PT & VT		JOI ERVISOR.	HAW ALI
Whie Contrast I	Paint Manufacture:	Magnaflux	Batch No:	220602	EXPIRE DA	ATE: JUN,2025	/			
Digital Lux M WHITE LIGHT IN		TECH	INICAL DETAIL	S		Black Magnetic Ink Manufacture:7HF	STAMP & SIGNATURE:	Ingineeru	CLIENT:	
3570 Lux/S.NO:	:2722003 W	et FLUORESCENT Particle Concentr	ration 14 HF 0.1	to 0.4 ml/100	ml	Batch No:220605				
Cal Due Date:16	6.0CT2024	Black Magnetic Ink Concentrati	on 7 HF 1.2	to 2.4 ml/100	ml	EXPIRE DATE: Jul-25				



Copy - Area Office

QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021













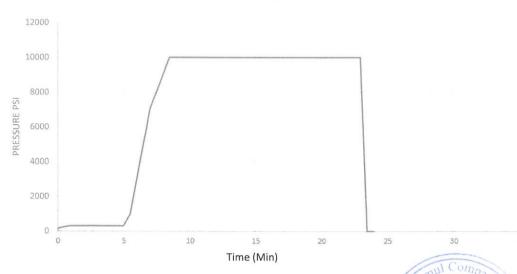
THE ABOVE INSPECTED AREAS WAS ACCEPTED

Data Collection Report

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

Run Info	
Start Time	1:30 PM
Stop Time	1:54 PM
Test Date	25-May-24
EQ NUMBER	11483046
LAST CALIB	2.Aug.2023

READING



TESTED BY:

Haider Emad

APPROVED BY:

Hassan Kamel

COMMENTS:

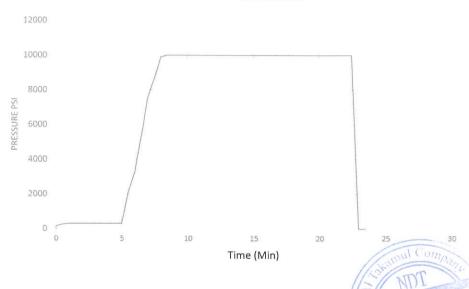
Body Test

Data Collection Report

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

Run Info	
Start Time	2:00 PM
Stop Time	2:24 PM
Test Date	25-May-24
EQ NUMBER	11483046
LAST CALIB	2.Aug.2023

READING



TESTED BY:

Haider Emad

APPROVED BY:

Hassan Kamel

COMMENTS:

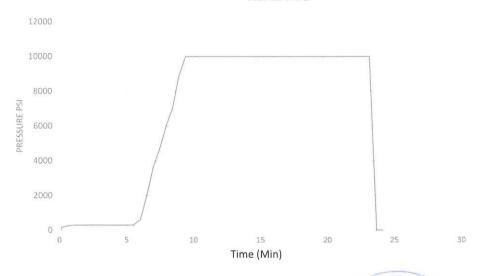
Upstream Test

Data Collection Report

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

Run Info	
Start Time	2:30 PM
Stop Time	2:54 PM
Test Date	25-May-24
EQ NUMBER	11483046
LAST CALIB	2.Aug.2023

READING



TESTED BY:

Haider Emad

APPROVED BY:

Hassan Kamel

COMMENTS:

Downstream Test