

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

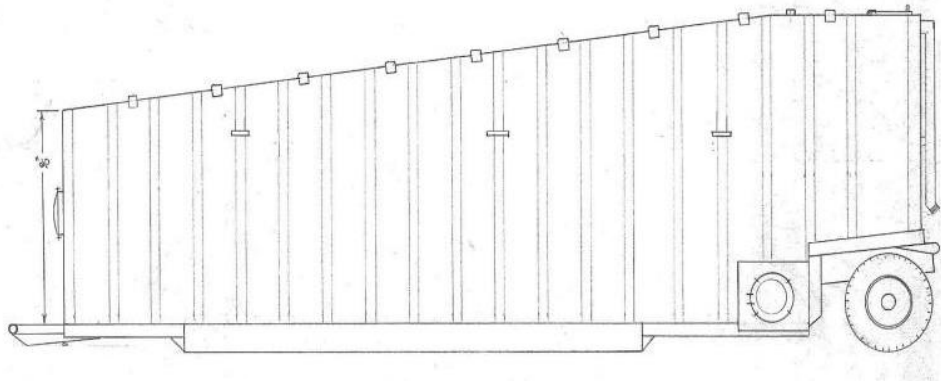


CERTIFICATE OF QUALIFICATION VISUAL AND WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-09-TSS-01-NDT-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	180924
WORK ORDER #	327063240	SPECIFICATION:	ASME B31.1
DATE OF INSPECTION :	Tuesday, September 17, 2024	INSP. DUE DATE:	Tuesday, September 16, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION AND WITNESS PRESSURE TEST		

DESCRIPTION:	FRAC TANK 500 BBL	SAP NO:	12233875
INLET PRESSURE TEST	150 Psi	HOLDING TIME:	20 MINUTES
OUTLET PRESSURE TEST	150 Psi	HOLDING TIME:	20 MINUTES
Pump NO.::	EQ NO:13119220	CAL DUE DATE:	19.AUG.2025
Pressure Gauge NO.:	468066	CAL DUE DATE:	19.JUL.2025



ONLINE TRACEABILITY

PRESSURE TEST WITNESS RESULT

INLET PRESSURE TEST 1:	The Above Item was Pressure Tested Up to 150 PSI Maximum Working pressure, Hold For 20 Minutes no Leak was Found while testing & Pressure Was Stable According To Chart Recorder
OUTLET PRESSURE TEST 2:	The Above Item was Pressure Tested Up to 150 PSI Maximum Working pressure, Hold For 20 Minutes no Leak was Found while testing & Pressure Was Stable According To Chart Recorder

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT, NDT, C, VT, UT, RT, PT, ET, MT, ST, DT, FT, GT, HT, IT, JT, KT, LT, MT, NT, OT, PT, QT, RT, ST, TT, UT, VT, WT, XT, YT, ZT	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:	HALLIBURTON	REPORT No.:	QC-24-09-TSS-01-NDT-002
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	190924
WORK ORDER #	327063240	SPECIFICATION:	ASTM E709 & ASTM E 797
DATE:	Tuesday, September 17, 2024	INSP. DUE DATE:	Tuesday, September 16, 2025
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	FRAC TANK 500 BBL	SAP NO.:	12233875
MANUFACTURER:	Alshirawi Equipment Company		

INSPECTION DETAILS

RIGHT SIDE FRAC TANK

LEFT SIDE FRAC TANK

ONLINE TRACEABILITY

BACK SIDE FRAC TANK

FRONT SIDE FRAC TANK

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

ANGLE	THICKNESS AT POSITION						MINIMUM THICKNESS	FINAL REMARKS
	A	B	C	D	E	F		
RIGHT SIDE TOP 1	7.68	7.85	7.80	7.66	7.69	7.75	4.67 MM	SATISFACTORY
RIGHT SIDE MIDDEL 2	7.75	7.67	7.72	7.78	7.82	7.74		
RIGHT SIDE BOTTOM 3	7.84	7.86	7.73	7.76	7.68	7.72		
	G	H	I	J	K	L		
LEFT SIDE TOP 1	7.91	7.83	7.88	7.94	7.98	7.90		
LEFT SIDE MIDDEL 2	8.00	8.02	7.74	7.77	7.69	7.73		
LEFT SIDE BOTTOM 3	8.09	8.11	7.71	7.74	7.66	7.70		
	M		N		O			
BACK SIDE TOP 1	8.82		8.87		8.91			
BACK SIDE MIDDEL 2	8.91		8.94		8.74			
BACK SIDE BOTTOM 3	9.00		8.79		8.79			
	P		Q		R			
FRONT SIDE TOP 1	8.98		8.74		8.78			
FRONT SIDE MIDDEL 2	9.07		8.79		8.86			
FRONT SIDE BOTTOM 3	8.85		8.95		8.66			

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	ACCORDING TO ASTM E 797

Inspection Evaluation

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

U.T-The Above Item Was Found Acceptable As Per ASTM E 797

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3490 lux						

PERSON DETAILS

INSPECTOR NAME:	Yusuf Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP	INSPECTION SUPERVISOR:	HANI ALI	REASON:	
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:	HALLIBURTON	REPORT No.:	QC-24-09-TSS-01-NDT-003
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	190924
WORK ORDER #	327063240	SPECIFICATION:	ASTM E709 & ASTM E 797
DATE:	Tuesday, September 17, 2024	INSP. DUE DATE:	Tuesday, September 16, 2025
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	FRAC TANK MANIFOLD	FRAC TANK SAP NO.:	12233875
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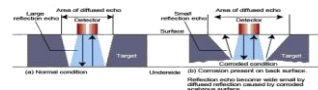
INSPECTION DETAILS



ONLINE TRACEABILITY

A:12'O CLOCK / FORWARD
B:3'O CLOCK / CENTER
C:6'O CLOCK / AFT

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



ANGLE	THICKNESS AT POSITION					MINIMUM THICKNESS	FINAL REMARKS
	A	B	C	D	E		
0°	9.32	9.44	9.37	9.30	9.34	4.67 MM	SATISFACTORY
90°	9.39	9.31	9.36	9.42	9.46		
180°	9.48	9.50	9.32	9.35	9.27		
270°	9.57	9.59	9.19	9.22	9.14		

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	ACCORDING to ASTM E 797

Inspection Evaluation

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

U.T-The Above Item Was Found Acceptable As Per ASTM E 797

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN.2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3490 lux						

PERSON DETAILS

INSPECTOR NAME:	Amran Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:		INSPECTION SUPERVISOR:	HANI ALI	HBASIGN	
SIGNATURE & STAMP:				DATE:	

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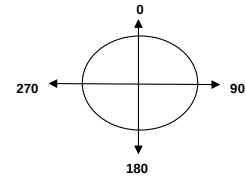
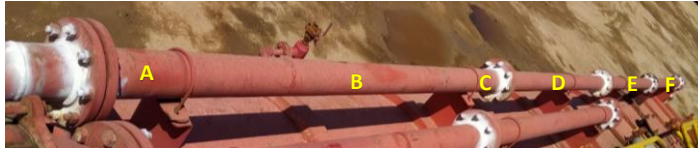


CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-09-TSS-01-NDT-004
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	190924
WORK ORDER #	327063240	SPECIFICATION:	ASTM E709 & ASTM E 797
DATE:	Tuesday, September 17, 2024	INSP. DUE DATE:	Tuesday, September 16, 2025
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	FRAC TANK FILL LINE	FRAC TANK SAP NO.:	12233875

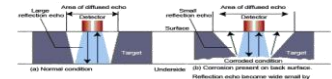
INSPECTION DETAILS



ONLINE TRACEABILITY

A:12'O CLOCK / FORWARD
B:3'O CLOCK / CENTER
C:6'O CLOCK / AFT

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



ANGLE	THICKNESS AT POSITION				MINIMUM THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	6.32	6.44	6.37	6.30	4.67 MM	SATISFACTORY
B	6.39	6.31	6.36	6.42		
C	6.48	6.50	6.32	6.35		
D	6.55	6.47	6.52	6.58		
E	6.59	6.61	6.38	6.41		
F	6.56	6.48	6.53	6.59		
G	6.38	6.40	6.49	6.52		
H	6.20	6.22	6.36	6.39		
I	6.57	6.59	6.19	6.22		

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	ACCORDING TO ASTM E 797

Inspection Evaluation

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

U.T-The Above Item Was Found Acceptable As Per ASTM E 797

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3490 lux						

PERSON DETAILS

INSPECTOR NAME:	Yaman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP	INSPECTION SUPERVISOR:	HANI ALI	HBASIGN	
SIGNATURE & STAMP:				DATE:	

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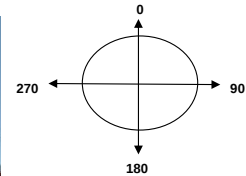
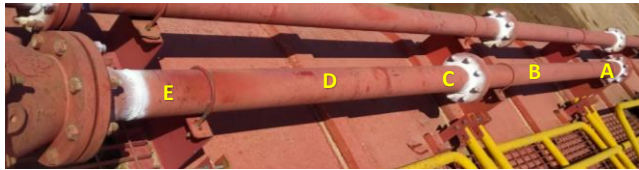


CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-09-TSS-01-NDT-005
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	190924
WORK ORDER #	327063240	SPECIFICATION:	ASTM E709 & ASTM E 797
DATE:	Tuesday, September 17, 2024	INSP. DUE DATE:	Tuesday, September 16, 2025
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	FRAC TANK RELIEF LINE	FRAC TANK SAP NO.:	12233875

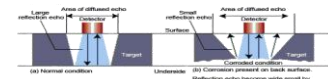
INSPECTION DETAILS



ONLINE TRACEABILITY

A:12'O CLOCK / FORWARD
B:3'O CLOCK / CENTER
C:6'O CLOCK / AFT

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



ANGLE	THICKNESS AT POSITION				MINIMUM THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	6.42	6.48	6.41	6.32	4.67 MM	SATISFACTORY
B	6.46	6.38	6.43	6.49		
C	6.55	6.57	6.36	6.39		
D	6.62	6.54	6.59	6.65		
E	6.66	6.68	6.45	6.48		
F	6.54	6.46	6.51	6.57		
G	6.27	6.29	6.56	6.59		
H	6.09	6.11	6.34	6.37		
I	6.64	6.66	6.26	6.29		

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	ACCORDING TO ASTM E 797

Inspection Evaluation

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

U.T-The Above Item Was Found Acceptable As Per ASTM E 797

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504048	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3490 lux						

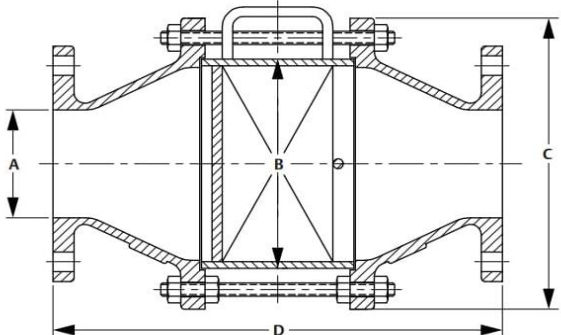
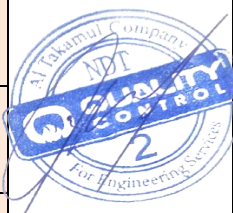
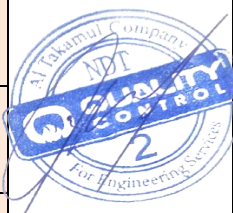
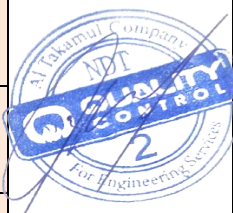
PERSON DETAILS

INSPECTOR NAME:	Yaman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP	INSPECTION SUPERVISOR:	HANI ALI	HBASIGN	
SIGNATURE & STAMP:				DATE:	

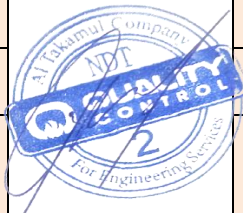
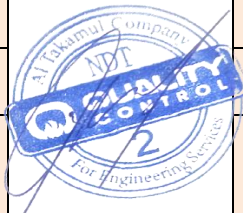
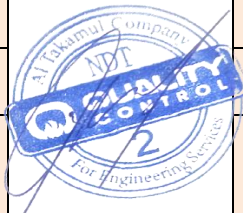
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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-006																																																																												
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240																																																																												
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025																																																																												
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)																																																																												
		UNIT DESCRIPTION:	FLAME ARRESTER 4" 150 CL																																																																												
		UNIT S/N:	1471																																																																												
		FRAC TANK SAP NO:	12233875																																																																												
		INSPECTION RESULT :																																																																													
		VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION																																																																												
		MAGNETIC PARTICLE INSPECTION	Available critical areas inspected and found free from cracks and other defects																																																																												
		FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED																																																																												
COMMENT:																																																																															
Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast																																																																															
<table border="1"> <thead> <tr> <th colspan="6">EQUIPMENT DETAILS</th> <th colspan="2">PERSON DETAILS</th> <th colspan="2">REVIEW BY</th> </tr> </thead> <tbody> <tr> <td>Equipment:</td><td>AC-Yoke Test Block</td> <td>Equipment:</td><td>Digital Lux Meter</td> <td>Equipment:</td><td>AC/DC Yoke</td> <td rowspan="3"> INSPECTOR NAME: Usman Shabbir QUALIFICATION ASNT LEVEL II MT & PT & VT STAMP & SIGNATURE: </td> <td rowspan="3">  </td> <td>SENIOR INSPECTOR:</td><td>NAVEED HUSSAIN</td> </tr> <tr> <td>S.No:</td><td>1657</td> <td>S.No:</td><td>2722003</td> <td>S.No:</td><td>201504048</td> <td>SUPERVISOR:</td><td>HANI ALI</td> </tr> <tr> <td>Cal Due Date:</td><td>14-Oct-24</td> <td>Cal Due Date:</td><td>16-Oct-24</td> <td>Cal Due Date:</td><td>14-Oct-24</td> <td>CLIENT:</td><td></td> </tr> <tr> <td colspan="2">Black Magnetic Ink Manufacture:</td><td>Magnaflux</td> <td>Batch No:</td><td>220605</td> <td>Expiry Date:</td><td>JULY.2025</td> <td colspan="3"></td> </tr> <tr> <td colspan="2">White Contrast Paint Manufacture:</td><td>Magnaflux</td> <td>Batch No:</td><td>220602</td> <td>Expiry Date:</td><td>JUN,2025</td> <td colspan="3"></td> </tr> <tr> <td colspan="2">Technical Details:</td> <td colspan="2">Magnetic Partical Concentration</td> <td colspan="2">Method</td> <td colspan="2">WMPT Light Intensity</td> <td colspan="2"></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">1.2 to 2.4 ml/100 ml</td> <td colspan="2">Wet Magnetic Particle Testing (WMPT)</td> <td colspan="2">3640 Lux</td> <td colspan="2"></td> </tr> </tbody> </table>				EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY		Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke	INSPECTOR NAME: Usman Shabbir QUALIFICATION ASNT LEVEL II MT & PT & VT STAMP & SIGNATURE:		SENIOR INSPECTOR:	NAVEED HUSSAIN	S.No:	1657	S.No:	2722003	S.No:	201504048	SUPERVISOR:	HANI ALI	Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	CLIENT:		Black Magnetic Ink Manufacture:		Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025				White 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)		3640 Lux			
EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY																																																																							
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke	INSPECTOR NAME: Usman Shabbir QUALIFICATION ASNT LEVEL II MT & PT & VT STAMP & SIGNATURE:		SENIOR INSPECTOR:	NAVEED HUSSAIN																																																																						
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Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24			CLIENT:																																																																							
Black Magnetic Ink Manufacture:		Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025																																																																									
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Technical Details:		Magnetic Partical Concentration		Method		WMPT Light Intensity																																																																									
		1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3640 Lux																																																																									
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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-007																																																																																																				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240																																																																																																				
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025																																																																																																				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A																																																																																																				
		UNIT DESCRIPTION:	FLANGE: 4" 150 CL X 4" 206 WING																																																																																																				
		UNIT S/N:	1909-8																																																																																																				
		FRAC TANK SAP NO:	12233875																																																																																																				
		INSPECTION RESULT :																																																																																																					
		VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION																																																																																																				
		MAGNETIC PARTICLE INSPECTION	Thread & Groove areas inspected and found free from cracks and other defects																																																																																																				
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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-008																																																																				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240																																																																				
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025																																																																				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A																																																																				
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		UNIT S/N:	1909-9																																																																				
		FRAC TANK SAP NO:	12233875																																																																				
		INSPECTION RESULT :																																																																					
		VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION																																																																				
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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-009				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240				
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A				
		UNIT DESCRIPTION:	FLANGE: 4" 150 CL X 4" 206 WING				
		UNIT S/N:	1909-10				
		FRAC TANK SAP NO:	12233875				
		INSPECTION RESULT :					
		VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION				
		MAGNETIC PARTICLE INSPECTION	Thread & Groove areas inspected and found free from cracks and other defects				
		FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED				
		COMMENT: (MPI Wet Fluorescent inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast					
							
EQUIPMENT DETAILS							
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3140 μw/cm ²		
S.NO:	201504048	S.NO:	22650	S.NO:	1898977		
Cal Due Date:	14.OCT.2024	Cal Due Date:	15.OCT.2024	Cal Due Date:	14.OCT.2024		
FLUORESCENT 14HF		Magnaflux	Batch No:	220306	EXPIRE DATE: MARCH,2025		
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:	Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:220605		
3620 Lux/S.NO:2722003	Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE: Jul-25		
Cal Due Date:16.OCT.2024							
PERSON DETAILS			REVIEW BY				
INSPECTOR NAME:	Usman Shabbir		SENIOR INSPECTOR:	NAVEED HUSSAIN			
QUALIFICATION:	ASNT LEVEL II MT & PT & VT		SUPERVISOR:	HANI ALI			
STAMP & SIGNATURE:			CLIENT:				

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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-010
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A

	UNIT DESCRIPTION:	FLANGE: 4" 150 CL X 4" 206 WING
	UNIT S/N:	1909-11
	FRAC TANK SAP NO:	12233875
	INSPECTION RESULT :	
	VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION
	MAGNETIC PARTICLE INSPECTION	Thread & Groove areas inspected and found free from cracks and other defects
	FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED
	COMMENT: (MPI Wet Fluorescent inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast	

EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3140 μw/cm²	INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.NO:	201504048	S.NO:	22650	S.NO:	1898977	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
Cal Due Date:	14.OCT.2024	Cal Due Date:	15.OCT.2024	Cal Due Date:	14.OCT.2024	STAMP & SIGNATURE: 	CLIENT:		
FLUORESCENT 14HF		Magnaflux	Batch No:	220306	EXPIRE DATE:				MARCH,2025
White Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	EXPIRE DATE:				JUN,2025
TECHNICAL DETAILS									
Digital Lux Meter WHITE LIGHT INTENSITY:		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Black Magnetic Ink Manufacture:7HF			
3620 Lux/S.NO:2722003						Batch No:220605			
Cal Due Date:16.OCT.2024		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE:		Jul-25	

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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-011																																																																																									
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240																																																																																									
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025																																																																																									
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A																																																																																									
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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																																																																																								
3620 Lux/S.NO:2722003		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml																																																																																								
Cal Due Date:16.OCT.2024		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE:		Jul-25																																																																																				

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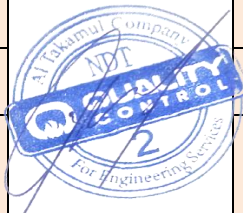
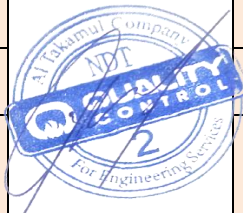
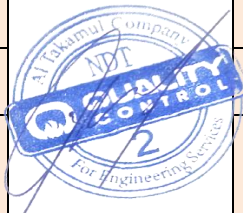


Address: Noth Rumaila, Al Takamul Yard
Contact: +9647810009138

Tel: +9647810009138 / +9647834964657

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

CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-012																																																																																																				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240																																																																																																				
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025																																																																																																				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A																																																																																																				
		UNIT DESCRIPTION:	FLANGE: 4" 150 CL X 4" 206 WING																																																																																																				
		UNIT S/N:	1909-13																																																																																																				
		FRAC TANK SAP NO:	12233875																																																																																																				
		INSPECTION RESULT :																																																																																																					
		VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION																																																																																																				
		MAGNETIC PARTICLE INSPECTION	Thread & Groove areas inspected and found free from cracks and other defects																																																																																																				
		FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED																																																																																																				
		COMMENT: (MPI Wet Fluorescent inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast																																																																																																					
<table border="1"> <thead> <tr> <th colspan="6">EQUIPMENT DETAILS</th> <th colspan="2">PERSON DETAILS</th> <th colspan="2">REVIEW BY</th> </tr> </thead> <tbody> <tr> <td>EQUIPMENT :</td><td>AC/DC HAND Yoke</td> <td>EQUIPMENT :</td><td>Shooting Coil DC</td> <td>EQUIPMENT :</td><td>UV BLACK LIGHT: 3140 μw/cm²</td> <td>INSPECTOR NAME:</td><td>Usman Shabbir</td> <td>SENIOR INSPECTOR:</td><td>NAVEED HUSSAIN</td> </tr> <tr> <td>S.NO:</td><td>201504048</td> <td>S.NO:</td><td>22650</td> <td>S.NO:</td><td>1898977</td> <td>QUALIFICATION:</td><td>ASNT LEVEL II MT & PT & VT</td> <td>SUPERVISOR:</td><td>HANI ALI</td> </tr> <tr> <td>Cal Due Date:</td><td>14.OCT.2024</td> <td>Cal Due Date:</td><td>15.OCT.2024</td> <td>Cal Due Date:</td><td>14.OCT.2024</td> <td rowspan="4"> STAMP & SIGNATURE:  </td> <td colspan="3" rowspan="4">CLIENT:</td> </tr> <tr> <td colspan="2">FLUORESCENT 14HF</td> <td>Magnaflux</td> <td>Batch No:</td><td>220306</td> <td>EXPIRE DATE:</td><td>MARCH,2025</td> </tr> <tr> <td colspan="2">White Contrast Paint Manufacture:</td> <td>Magnaflux</td> <td>Batch No:</td><td>220602</td> <td>EXPIRE DATE:</td><td>JUN,2025</td> </tr> <tr> <td colspan="2">Black Magnetic Ink Manufacture:7HF</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">TECHNICAL DETAILS</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="4"></td> </tr> <tr> <td colspan="2">Digital Lux Meter WHITE LIGHT INTENSITY:</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="4"></td> </tr> <tr> <td colspan="2">3620 Lux/S.NO:2722003</td> <td colspan="2">Wet FLUORESCENT Particle Concentration 14 HF</td> <td colspan="2">0.1 to 0.4 ml/100 ml</td> <td colspan="4">Batch No:220605</td> </tr> <tr> <td colspan="2">Cal Due Date:16.OCT.2024</td> <td colspan="2">Black Magnetic Ink Concentration 7 HF</td> <td colspan="2">1.2 to 2.4 ml/100 ml</td> <td colspan="2">EXPIRE DATE:</td> <td colspan="2">Jul-25</td> </tr> </tbody> </table>				EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY		EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3140 μw/cm²	INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	S.NO:	201504048	S.NO:	22650	S.NO:	1898977	QUALIFICATION:	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI	Cal Due Date:	14.OCT.2024	Cal Due Date:	15.OCT.2024	Cal Due Date:	14.OCT.2024	STAMP & SIGNATURE: 	CLIENT:			FLUORESCENT 14HF		Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025	White Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	EXPIRE DATE:	JUN,2025	Black Magnetic Ink Manufacture:7HF						TECHNICAL DETAILS										Digital Lux Meter WHITE LIGHT INTENSITY:										3620 Lux/S.NO:2722003		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:220605				Cal Due Date:16.OCT.2024		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE:		Jul-25	
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Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com

CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-013																																																																																																				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240																																																																																																				
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025																																																																																																				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A																																																																																																				
		UNIT DESCRIPTION:	FLANGE: 4" 150 CL X 4" 206 WING																																																																																																				
		UNIT S/N:	1909-14																																																																																																				
		FRAC TANK SAP NO:	12233875																																																																																																				
		INSPECTION RESULT :																																																																																																					
		VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION																																																																																																				
		MAGNETIC PARTICLE INSPECTION	Thread & Groove areas inspected and found free from cracks and other defects																																																																																																				
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EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY																																																																																															
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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-014						
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240						
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025						
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)						
		UNIT DESCRIPTION:	BALON VALVE 4" 150 CL						
		UNIT S/N:	00 LR5						
		FRAC TANK SAP NO:	12233875						
		INSPECTION RESULT :							
		VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION						
		MAGNETIC PARTICLE INSPECTION	Available critical areas inspected and found free from cracks and other defects						
		FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED						
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:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504048			SUPERVISOR:	HANI ALI
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24			CLIENT:	
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025				
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:			
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity				
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3640 Lux				

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Corporate Partner



Address: North Rumaila, Al Takamul Yard
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Tel: +9647810009138 / +9647834964657

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

CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-015						
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240						
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025						
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)						
		UNIT DESCRIPTION:	BALON VALVE 4" 150CL						
		UNIT S/N:	00 LR8						
		FRAC TANK SAP NO:	12233875						
		INSPECTION RESULT :							
		VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION						
		MAGNETIC PARTICLE INSPECTION	Available critical areas inspected and found free from cracks and other defects						
		FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED						
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:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504048			SUPERVISOR:	HANI ALI
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24			CLIENT:	
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025				
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:			
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity				
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3640 Lux				

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Corporate Partner



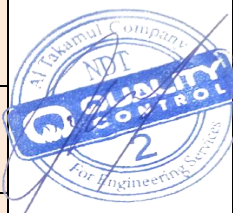
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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-24-09-TSS-NDT-016
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	327063240
Date:	Tuesday, September 17, 2024	Next Inspection Date:	Sunday, March 16, 2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION		Specification:
  		UNIT DESCRIPTION:	KING PIN OF FRAC TANK 500BBL
		UNIT DIMENSIONS:	11.50 M(L) X 2.50 M(W) X 2.70 M(H)
		FRAC TANK SAP NO:	12233875
		INSPECTION RESULT :	
		VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION
MAGNETIC PARTICLE INSPECTION	forgn areas & King pin inspected and found free from cracks and other defects		
FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED		
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: Usman Shabbir		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-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-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)		3640 Lux					

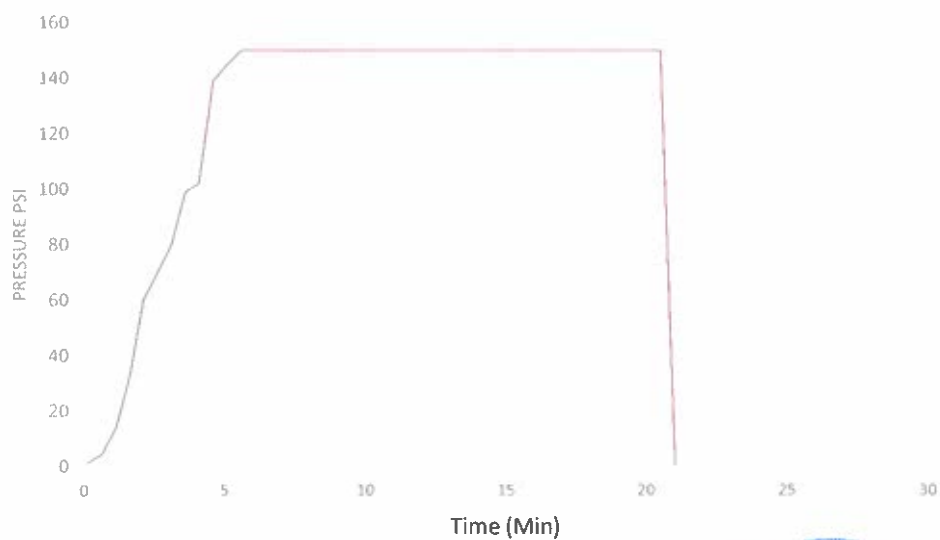
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Data Collection Report

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	8:51 AM
Test Date	17-Sep-24
EQ NUMBER	12233875
CAL DATE	20-Jul-24

READING



TESTED BY : Haider Emad
APPROVED BY: Hassan Kamel
COMMENTS: Inlet Test

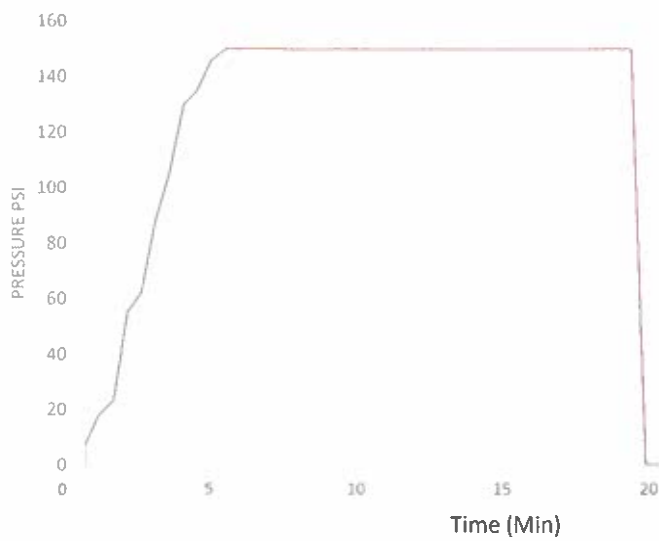


Data Collection Report

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	9:20 AM
Test Date	17-Sep-24
EQ NUMBER	12233875
CAL DATE	20-Jul-24

READING



TESTED BY : Haider Emad
APPROVED BY: Hassan Kamel
COMMENTS: Outlet Test

