

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

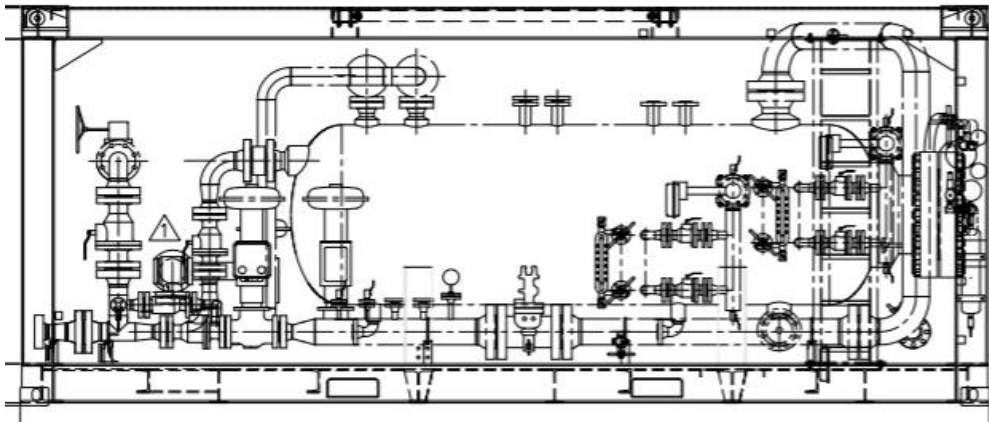
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATE OF QUALIFICATION VISUAL AND WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-12-04-TSS-HALL-NDT-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-12-04-TSS-NDT-HALL-001
WORK ORDER #	326697716	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition , ASME B31.3
DATE OF INSPECTION :	Monday, April 15, 2024	INSP. DUE DATE:	Monday, April 14, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION AND WITNESS PRESSURE TEST		
DESCRIPTION:	SEPARATOR VESSEL 1440PSI	SAP EQ.NO	11484040
BODY PRESSURE TEST	1440 psi	HOLDING TIME:	23 MINUTES
VALVE PRESSURE TEST	1440 Psi	HOLDING TIME:	23 MINUTES
BODY PRESSURE TEST WITH PRV :	1296 psi	HOLDING TIME:	23 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 Separaror Body 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 All Valve 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 3:	The Above Separaror Body With PRV Was Tested Up to 100 PSI A low Pressure Hold for 5 min And 1296 PSI Maximum Working pressure, Hold For 17 min no Leak was Found while testing & Pressure Was Stable According To Chart Recorder

PERSON DETAILS

INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	S.T.C. (PT,UT,VT,	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



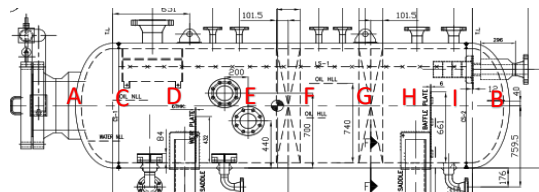
CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & ULTRASONIC WALL THICKNESS MEASUREMENT

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-12-04-TSS-HALL-NDT-002
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-12-04-TSS-NDT-HALL-001
WORK ORDER #	326697716	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, April 12, 2024	INSP. DUE DATE:	Friday, April 11, 2025
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	SEPARATOR VESSEL 1440PSI	SAP EQ.NO:	11484040
MANUFACTURER:	SPECIALIST SERVICES	MANUFACTURER SERIAL NO:	SSV-09
LEFT SIDE & RIGHT SIDE MINIMUM THICKNESS	44 MM	LEFT SIDE & RIGHT SIDE CORROSION ALLOWANCE	3 MM
SHELL NOMINAL THICKNESS	50 MM	SHELL CORROSION ALLOWANCE	3 MM

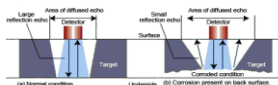
INSPECTION DETAILS



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

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





Underneath: (a) Corrosion present on back surface
Reflection echo becomes weak and by surface reflection caused by corroded surface

ANGLE	THICKNESS AT POSITION			MINIMUM THICKNESS	CORROSION ALLOWANCE	FINAL REMARKS		
	120°	240°	360°					
LEFT SIDE A1	50.40	50.49	50.35	44 MM	3 MM	SATISFACTORY		
LEFT SIDE A2	50.45	50.25	50.36					
LEFT SIDE A3	50.15	49.69	50.25					
RIGHT SIDE B1	50.29	50.25	50.45					
RIGHT SIDE B2	50.49	50.42	50.43					
RIGHT SIDE B3	50.45	50.25	50.29					
ANGLE	THICKNESS AT POSITION			NOMINAL THICKNESS			3 MM	SATISFACTORY
	120°	240°	360°					
SHELL C	48.90	49.50	49.67	50 MM				
SHELL D	49.12	48.68	49.54					
SHELL E	48.87	49.59	48.98					
SHELL F	49.62	49.62	49.72					
SHELL G	49.43	48.52	48.88					
SHELL H	48.92	49.73	49.12					
SHELL I	49.59	49.62	49.28					

INSPECTION RESULT

VT & MPI	Accepted	According to ASME SECTION VIII DIV 1 Latest Edition
UT	Accepted	According to 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 ASME SECTION VIII DIV 1 Latest Edition

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:	201504052	CAL DUE DATE	12-Aug-24	White Contrast WCP 2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter	2722003	CAL DUE DATE	14-Aug-24	Magnaflux		220602	JUN.2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24	Magnaflux		220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	12-Aug-24	Fluorescent Magnetic Ink 7HF			1.2 to 2.4 ml/100 ml
WHITE LIGHT INTENSITY:	3680 lux						

PERSON DETAILS		REVIEW BY			
INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-105	INSPECTION SUPERVISOR:	HANI ALI	HBASIGN	
SIGNATURE & STAMP:				DATE:	

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AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

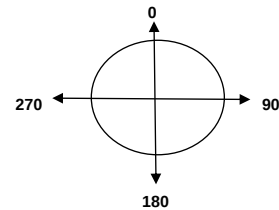
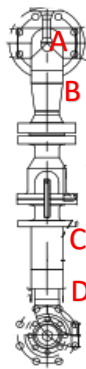


CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & ULTRASONIC WALL THICKNESS MEASUREMENT

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-12-04-TSS-HALL-NDT-003
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-12-04-TSS-NDT-HALL-001
WORK ORDER #	326697716	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, April 12, 2024	INSP. DUE DATE:	Friday, April 11, 2025
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SEPARATOR INLET LINE	SAP EQ.NO:	11484040
MANUFACTURER:	SPECIALIST SERVICES	MANUFACTURER SERIAL NO:	SSV-09

INSPECTION DETAILS

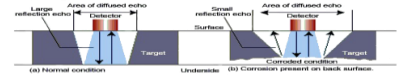


A:12'O CLOCK / FORWARD
B:3'O CLOCK / CENTER
C :6'O CLOCK / AFT

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



ONLINE TRACEABILITY



ANGLE	THICKNESS AT POSITION				CORROSION ALLOWANCE	FINAL REMARKS
	0°	90°	180°	270°		
A	7.45	7.50	7.51	7.69	3 MM	SATISFACTORY
B	7.35	7.25	7.40	7.45		
C	7.45	7.41	7.41	7.49		
D	7.49	7.25	7.39	7.41		

INSPECTION RESULT

VT & MPI	Accepted	ACCORDING TO ASME SECTION VIII DIV 1 Latest Edition
UT	Accepted	According to 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 ASME SECTION VIII DIV 1 Latest Edition

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:	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
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	12-Aug-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3680 lux						

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	Usman Sh...	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT, UT, VT	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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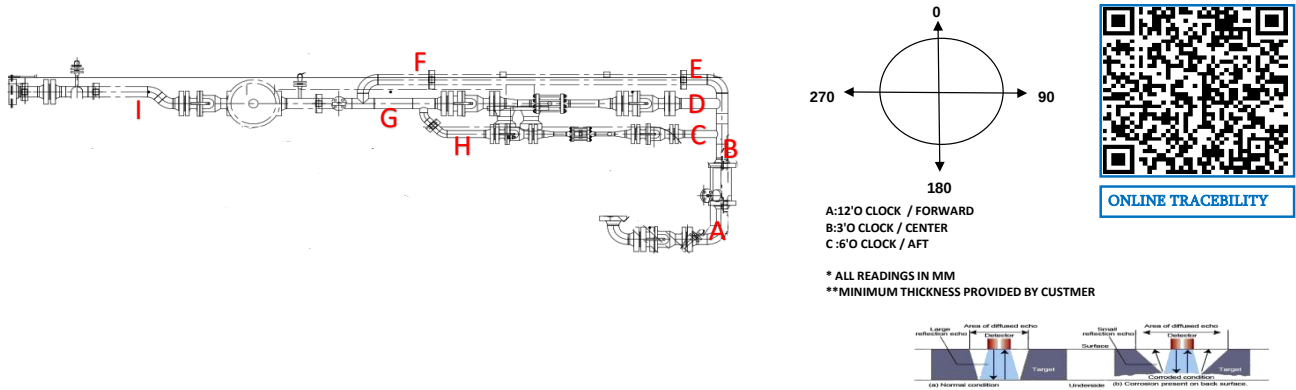


CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & ULTRASONIC WALL THICKNESS MEASUREMENT

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-12-04-TSS-HALL-NDT-004
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-12-04-TSS-NDT-HALL-001
WORK ORDER #	326697716	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, April 12, 2024	INSP. DUE DATE:	Friday, April 11, 2025
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SEPARATOR OIL OUT LINE	SAP EQ.NO:	11484040
MANUFACTURER:	SPECIALIST SERVICES	MANUFACTURER SERIAL NO:	SSV-09

INSPECTION DETAILS



ANGLE	THICKNESS AT POSITION				CORROSION ALLOWANCE	FINAL REMARKS
	0°	180°	270°			
A	8.29	8.15	8.11	8.12	3MM	SATISFACTORY
B	7.45	7.41	7.45	7.25		
C	7.35	8.21	8.30	7.60		
D	7.85	7.56	8.10	7.52		
E	7.30	7.23	7.33	7.40		
F	7.45	7.45	7.49	7.58		
G	7.49	7.60	7.58	7.60		
H	7.61	7.61	7.64	7.75		
I	7.69	7.64	7.25	7.21		

INSPECTION RESULT

VT & MPI	Accepted	According to ASME SECTION VIII DIV 1 Latest Edition
UT	Accepted	According to 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 ASME SECTION VIII DIV 1 Latest Edition

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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
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	12-Aug-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3680 lux						

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	Umar Ali	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	SENT TO MT,PT,UT,VT,	INSPECTION SUPERVISOR:	HANI ALI	HR&SIGN	
SIGNATURE & STAMP:				DATE:	

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CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & ULTRASONIC WALL THICKNESS MEASUREMENT

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-12-04-TSS-HALL-NDT-005
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-12-04-TSS-NDT-HALL-001
WORK ORDER #	326697716	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, April 12, 2024	INSP. DUE DATE:	Friday, April 11, 2025
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SEPARATOR GAS OUT LINE	SAP EQ.NO:	11484040
MANUFACTURER:	SPECIALIST SERVICES	MANUFACTURER SERIAL NO:	SSV-09

INSPECTION DETAILS

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

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

ONLINE TRACEABILITY

ANGLE	THICKNESS AT POSITION				CORROSION ALLOWANCE	FINAL REMARKS
	0°	90°	180°	270°		
A	11.36	11.38	11.40	11.45	3 MM	SATISFACTORY
B	11.49	11.50	11.52	11.60		
C	11.25	11.26	11.35	11.40		
D	11.47	11.48	11.49	11.42		
E	11.47	11.34	11.35	11.38		
F	11.36	11.35	11.29	11.41		
G	11.39	11.36	11.25	11.36		
H	11.41	11.29	11.54	11.56		
I	11.56	11.57	11.56	11.58		

INSPECTION RESULT

VT & MPI	Accepted	According to ASME SECTION VIII DIV 1 Latest Edition
UT	Accepted	According to 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 ASME SECTION VIII DIV 1 Latest Edition

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:	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
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	12-Aug-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3680 lux						

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	Usman Shah	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	AI, MPI, UT, VT	INSPECTION SUPERVISOR:	HANI ALI	HR 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

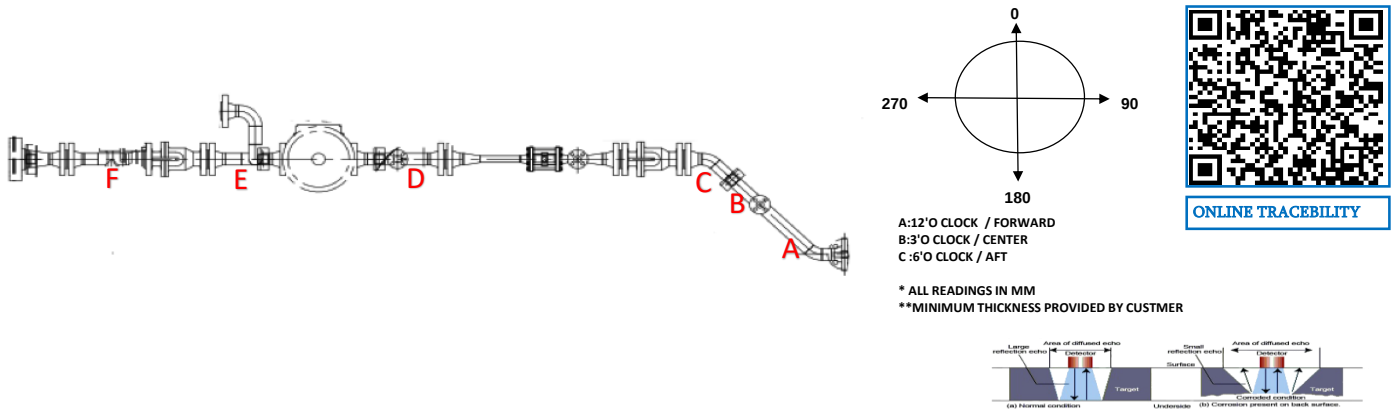


CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION & ULTRASONIC WALL THICKNESS MEASUREMENT

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-12-04-TSS-HALL-NDT-006
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-12-04-TSS-NDT-HALL-001
WORK ORDER #	326697716	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, April 12, 2024	INSP. DUE DATE:	Friday, April 11, 2025
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SEPARATOR WATER OUT LINE	SAP EQ.NO:	11484040
MANUFACTURER:	SPECIALIST SERVICES	MANUFACTURER SERIAL NO:	SSV-09

INSPECTION DETAILS



ANGLE	THICKNESS AT POSITION				CORROSION ALLOWANCE	FINAL REMARKS
	0°	90°	180°	270°		
A	7.58	7.40	7.99	7.95	3 MM	SATISFACTORY
B	7.45	7.45	7.45	7.26		
C	7.42	7.35	7.29	7.25		
D	7.68	7.39	7.29	7.25		
E	7.39	7.23	7.25	7.45		
F	7.29	7.45	7.49	7.58		

INSPECTION RESULT

VT & MPI	Accepted	ACCORDING TO ASME SECTION VIII DIV 1 Latest Edition
UT	Accepted	According to 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 ASME SECTION VIII DIV 1 Latest Edition

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:	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
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	12-Aug-24	Fluorescent Magnetic Ink 7HF		1.2 to 2.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3680 lux						

PERSON DETAILS

REVIEW BY

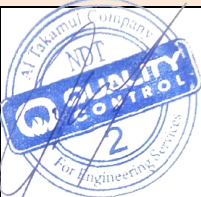
INSPECTOR NAME:		SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT LEVEL II MT, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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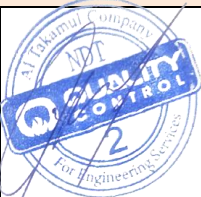
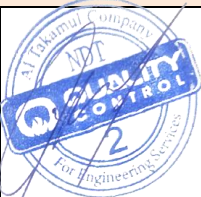
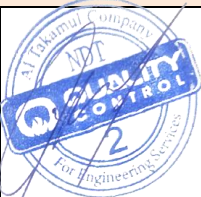
CERTIFICATE OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-12-04-TSS-NDT-007
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326697716
Date:	Friday, April 12, 2024	Next Inspection Date:	Friday, April 11, 2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION		
		UNIT DESCRIPTION:	2" BALON VALVE 600
		UNIT S/N:	2FMJ
		SEPARATOR SAP NO:	11484040
		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:	201504052					
Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024		QUALIFICATION	ASNT LEVEL II	SUPERVISOR:	HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		MT & PT & VT			
White 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)		3620 Lux					

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CERTIFICATE OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-12-04-TSS-NDT-008																																																																												
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326697716																																																																												
Date:	Friday, April 12, 2024	Next Inspection Date:	Friday, April 11, 2025																																																																												
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)																																																																												
		UNIT DESCRIPTION:	2" BALON VALVE 600																																																																												
		UNIT S/N:	9FMA																																																																												
		SEPARATOR SAP NO:	11484040																																																																												
		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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CERTIFICATE OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-12-04-TSS-NDT-009
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326697716
Date:	Friday, April 12, 2024	Next Inspection Date:	Friday, April 11, 2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION		Specification: ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)

	UNIT DESCRIPTION:	3" BALON VALVE 600
	UNIT S/N:	7FMO
	SEPARATOR SAP NO:	11484040
	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:	201504052				
Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024	QUALIFICATION ASNT LEVEL II MT & PT & VT		SUPERVISOR:	HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025				
White 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)		3620 Lux			

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Corporate Partner



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

Tel: +9647810009138 / +9647834964657

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

CERTIFICATE OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-12-04-TSS-NDT-010																																																																							
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326697716																																																																							
Date:	Friday, April 12, 2024	Next Inspection Date:	Friday, April 11, 2025																																																																							
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)																																																																							
		UNIT DESCRIPTION:	4" BALON VALVE 600																																																																							
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Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com

CERTIFICATE OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-12-04-TSS-NDT-011
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326697716
Date:	Friday, April 12, 2024	Next Inspection Date:	Friday, April 11, 2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION		Specification: ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)

	UNIT DESCRIPTION:	3" BALON VALVE 600
	UNIT S/N:	6HGC
	SEPARATOR SAP NO:	11484040
	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			SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504052			SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024			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		STAMP & SIGNATURE:	
		1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux			

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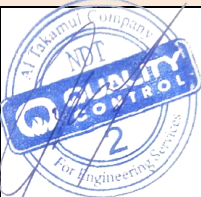
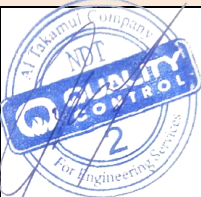
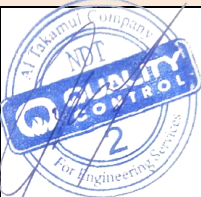


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CERTIFICATE OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-12-04-TSS-NDT-012																																																																																		
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326697716																																																																																		
Date:	Friday, April 12, 2024	Next Inspection Date:	Friday, April 11, 2025																																																																																		
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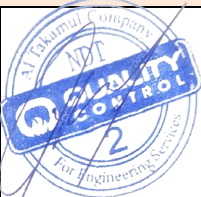
Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com

CERTIFICATE OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-12-04-TSS-NDT-013
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326697716
Date:	Friday, April 12, 2024	Next Inspection Date:	Friday, April 11, 2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION		Specification: ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)

	UNIT DESCRIPTION:	2" BALON VALVE 600
	UNIT S/N:	6FMK
	SEPARATOR SAP NO:	11484040
	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		
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EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke			SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504052			SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024			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		STAMP & SIGNATURE:	
		1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux			

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

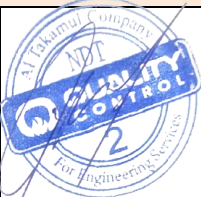
Tel: +9647810009138 / +9647834964657

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

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



CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION									
Client:	HALLIBURTON (TSS)				Report No:	QC-12-04-TSS-NDT-014			
Location:	TSS WORKSHOP & INSPECTION TEST AREA				WORK ORDER	326697716			
Date:	Friday, April 12, 2024				Next Inspection Date:	Friday, April 11, 2025			
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION				Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			
					UNIT DESCRIPTION:	3" BALON VALVE 600			
					UNIT S/N:	TSS-01-10			
					SEPARATOR SAP NO:	11484040			
					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:		SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504052	QUALIFICATION		SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024	ASNT LEVEL II		CLIENT:	
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025	MT & PT & VT			
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN.2025				
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity	STAMP & SIGNATURE:			
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux				
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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION									
Client:	HALLIBURTON (TSS)				Report No:	QC-12-04-TSS-NDT-015			
Location:	TSS WORKSHOP & INSPECTION TEST AREA				WORK ORDER	326697716			
Date:	Friday, April 12, 2024				Next Inspection Date:	Friday, April 11, 2025			
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION				Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			
					UNIT DESCRIPTION:	2" BALON VALVE 600			
					UNIT S/N:	7FLZ			
					SEPARATOR SAP NO:	11484040			
					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:		SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504052	QUALIFICATION		SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024	ASNT LEVEL II		CLIENT:	
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025	MT & PT & VT			
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN.2025				
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity	STAMP & SIGNATURE:			
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux				
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 Nov 2021									



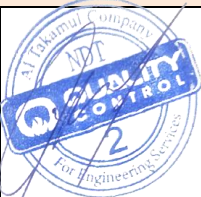
Corporate Partner



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

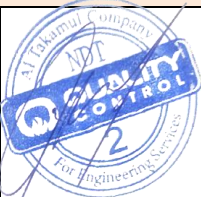
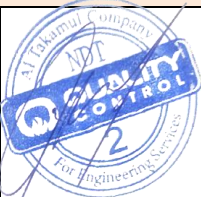
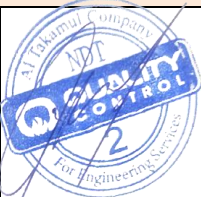
Tel: +9647810009138 / +9647834964657

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

CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION									
Client:	HALLIBURTON (TSS)				Report No:	QC-12-04-TSS-NDT-016			
Location:	TSS WORKSHOP & INSPECTION TEST AREA				WORK ORDER	326697716			
Date:	Friday, April 12, 2024				Next Inspection Date:	Friday, April 11, 2025			
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION				Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			
					UNIT DESCRIPTION:	3" BALON VALVE 600			
					UNIT S/N:	10BE			
					SEPARATOR SAP NO:	11484040			
					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:		SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504052	QUALIFICATION		SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024	ASNT LEVEL II		CLIENT:	
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025	MT & PT & VT			
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN.2025				
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity	STAMP & SIGNATURE:			
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux				
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 Nov 2021									

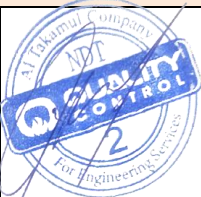
CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION									
Client:	HALLIBURTON (TSS)				Report No:	QC-12-04-TSS-NDT-017			
Location:	TSS WORKSHOP & INSPECTION TEST AREA				WORK ORDER	326697716			
Date:	Friday, April 12, 2024				Next Inspection Date:	Friday, April 11, 2025			
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION				Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			
					UNIT DESCRIPTION:	2" BALON VALVE 600			
					UNIT S/N:	0UAP			
					SEPARATOR SAP NO:	11484040			
					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:		SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504052	QUALIFICATION		SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024	ASNT LEVEL II		CLIENT:	
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025	MT & PT & VT			
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN.2025				
Technical Details:	Magnetic Partical Concentration		Method		WMPT Light Intensity	STAMP & SIGNATURE:			
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux				
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 Nov 2021									

CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-12-04-TSS-NDT-018																																																																								
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326697716																																																																								
Date:	Friday, April 12, 2024	Next Inspection Date:	Friday, April 11, 2025																																																																								
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)																																																																								
		UNIT DESCRIPTION:	1 1/2" BALON VALVE 600																																																																								
		UNIT S/N:	TSS-001																																																																								
		SEPARATOR SAP NO:	11484040																																																																								
		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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EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY																																																																			
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S.No:	1657	S.No:	2722003	S.No:	201504052		QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI																																																																		
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AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION									
Client:	HALLIBURTON (TSS)				Report No:	QC-12-04-TSS-NDT-019			
Location:	TSS WORKSHOP & INSPECTION TEST AREA				WORK ORDER	326697716			
Date:	Friday, April 12, 2024				Next Inspection Date:	Friday, April 11, 2025			
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION				Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)			
					UNIT DESCRIPTION:	1 1/2" BALON VALVE 600			
					UNIT S/N:	TSS-002			
					SEPARATOR SAP NO:	11484040			
					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:		SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504052	QUALIFICATION ASNT LEVEL II MT & PT & VT		SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024			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	STAMP & SIGNATURE:			
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux				
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 Nov 2021									

CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-12-04-TSS-NDT-020																																																																							
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326697716																																																																							
Date:	Friday, April 12, 2024	Next Inspection Date:	Friday, April 11, 2025																																																																							
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)																																																																							
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		UNIT S/N:	TSS-003																																																																							
		SEPARATOR SAP NO:	11484040																																																																							
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EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY																																																																		
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Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024		CLIENT:																																																																			
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Corporate Partner

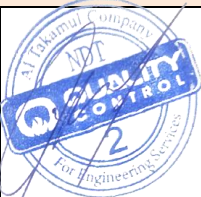


Address: Noth Rumaila, Al Takamul Yard
Contact: +9647810009138

Tel: +9647810009138 / +9647834964657

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

CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-12-04-TSS-NDT-021						
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326697716						
Date:	Friday, April 12, 2024	Next Inspection Date:	Friday, April 11, 2025						
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)						
		UNIT DESCRIPTION:	1 1/2" BALON VALVE 600						
		UNIT S/N:	TSS-004						
		SEPARATOR SAP NO:	11484040						
		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:	201504052		QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
Cal Due Date:	12.AUG.2024	Cal Due Date:	14.AUG.2024	Cal Due Date:	12.AUG.2024			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	STAMP & SIGNATURE:			
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux				
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 Nov 2021									



Corporate Partner



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

Tel: +9647810009138 / +9647834964657

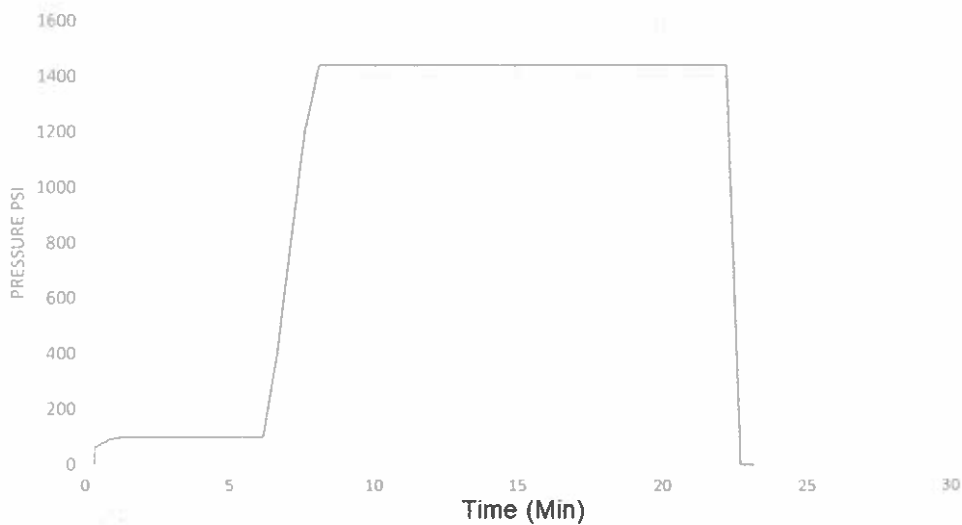
Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com

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	15-Apr-24
EQ NUMBER	11484040
LAST CALIB	2.Aug.2023

READING



TESTED BY : Khaldoon Asad

APPROVED BY: Hassan Kamel

COMMENTS: Body Test

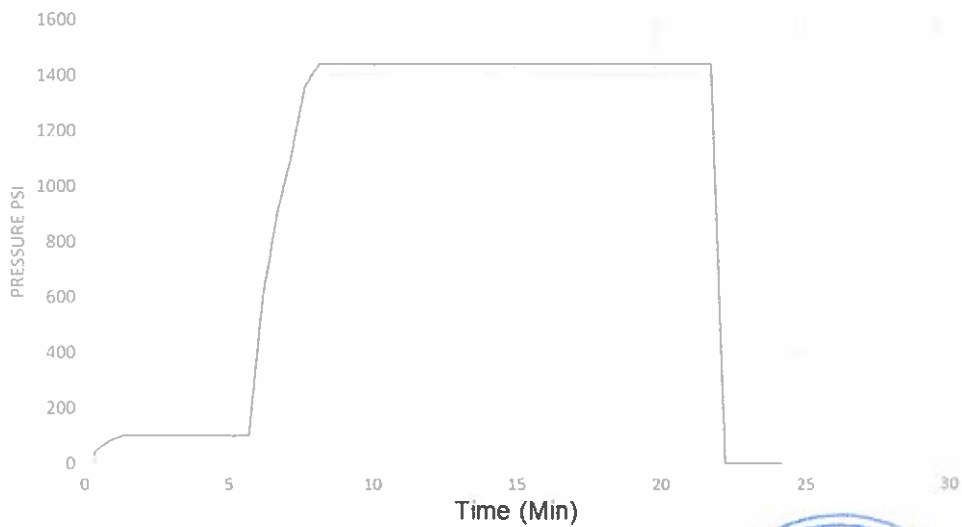


Data Collection Report

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

Run Info	
Start Time	8:56 AM
Stop Time	9:19 AM
Test Date	15-Apr-24
EQ NUMBER	11484040
LAST CALIB	2.Aug.2023

READING



TESTED BY : Khaldoon Asad

APPROVED BY: Hassan Kamel

COMMENTS: All valves has been tested

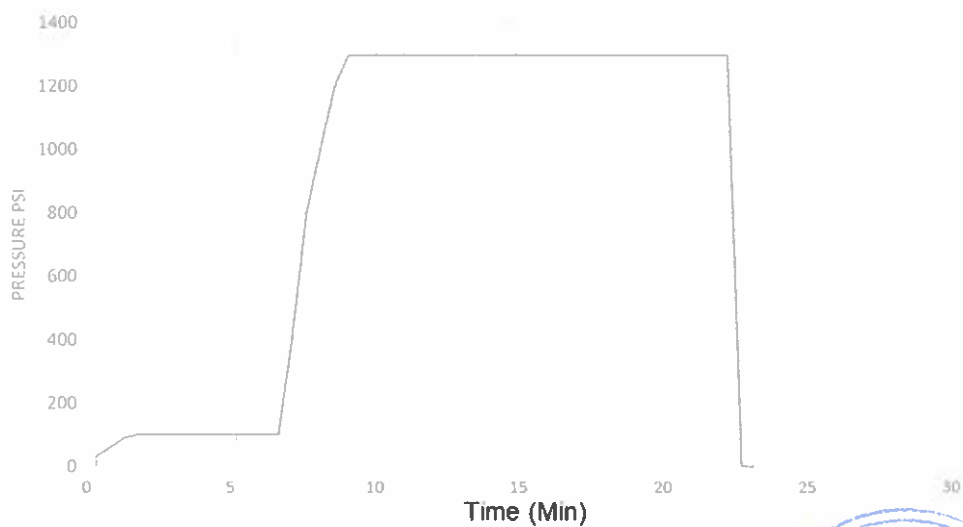


Data Collection Report

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

Run Info	
Start Time	9:50 AM
Stop Time	10:13 AM
Test Date	15-Apr-24
EQ NUMBER	11484040
LAST CALIB	2.Aug.2023

READING



TESTED BY : Khaldoon Asad
APPROVED BY: Hassan Kamel
COMMENTS: Body Test with PRV's

