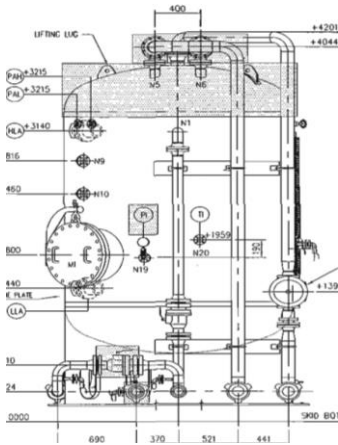




CERTIFICATE OF QUALIFICATION VISUAL AND WITNESS PRESSURE TEST  
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-05-TSS-HALL-NDT-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-24-05-TSS-HALL-006
WORK ORDER #	326589887	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition , ASME B31.1 H2S STANDARD NACE MR-01-75
DATE OF INSPECTION :	Wednesday, May 15, 2024	INSP. DUE DATE:	Wednesday, May 14, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION AND WITNESS PRESSURE TEST		
DESCRIPTION:	SURGE TANK 50 PSI 50 BBL	SAP EQ.NO	11484046
BODY PRESSURE TEST	50 psi	HOLDING TIME:	20 MINUTES
INLET AND BYPASS PRESSURE TEST	1440 Psi	HOLDING TIME:	23 MINUTES
BODY PRESSURE TEST WITH PRV :	45 psi	HOLDING TIME:	19 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 SurgeTank Body Was Tested Up to 50 PSI Maximum Working pressure, Hold For 20 min no Leak was Found while testing & Pressure Was Stable According To Chart Recorder
PRESSURE TEST 2:	The Above Inlet And Bypass Was Tested Up to 300 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 Surge Tank Body With PRV Was Tested Up to 225 PSI Maximum Working pressure, Hold For 19 min no Leak was Found while testing & Pressure Was Stable According To Chart Recorder

PERSON DETAILS

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

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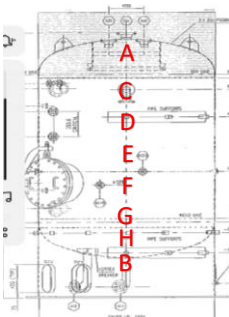
**CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>HALLIBURTON</b>	REPORT No.:	QC-24-05-TSS-HALL-NDT-002
LOCATION:	<b>TSS WORKSHOP &amp; INSPECTION TEST AREA</b>	JOB NO :	QC-24-05-TSS-NDT-HALL-006
WORK ORDER #	326589887	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition H2S STANDARD NACE MR-01-75 Manufacturing Date Book
INSPECTION DATE:	Wednesday, May 15, 2024	INSP. DUE DATE:	<b>Wednesday, May 14, 2025</b>
TYPE OF INSPECTION:	<b>VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING</b>		

DESCRIPTION:	<b>SURGE TANK 50BBL 50PSI</b>	SAP EQ.NO:	<b>11484046</b>
MANUFACTURER:	<b>SPECIALIST SERVICES</b>	MANUFACTURER SERIAL NO:	<b>FFZ-253</b>
TOP & BOTTOM MINIMUM THICKNESS	<b>6 MM</b>	TOP & BOTTOM CORROSION ALLOWANCE	<b>3 MM</b>
SHELL NOMINAL THICKNESS	<b>8 MM</b>	SHELL CORROSION ALLOWANCE	<b>3 MM</b>


**INSPECTION DETAILS**



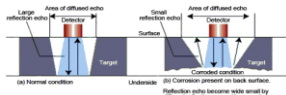
**360 120 240**

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

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



**ONLINE TRACEABILITY**



(a) Normal condition (b) Corrosion present on tank surface. Reflections also increase with varying surface conditions.

ANGLE	THICKNESS AT POSITION			MINIMUM THICKNESS	CORROSION ALLOWANCE	FINAL REMARKS
	120°	240°	360°			
SURGE TANK TOP A1	8.43	8.52	8.54	6 MM	3 MM	SATISFACTORY
SURGE TANK TOP A2	8.57	8.58	8.61			
SURGE TANK TOP A3	8.70	8.77	8.53			
SURGE TANK BOTTOM B1	8.43	8.44	8.52			
SURGE TANK BOTTOM B2	8.58	8.59	8.58			
SURGE TANK BOTTOM B3	8.84	8.83	8.79			
ANGLE	THICKNESS AT POSITION			NOMINAL THICKNESS		
	120°	240°	360°	8 MM		
SURGE TANK SHELL C	8.07	8.19	8.25			
SURGE TANK SHELL D	8.18	8.30	8.37			
SURGE TANK SHELL E	8.27	8.34	8.20			
SURGE TANK SHELL F	8.14	8.15	8.23			
SURGE TANK SHELL G	8.19	8.20	8.29			
SURGE TANK SHELL H	8.31	8.09	8.00			

**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	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24	Fluorescent Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24				
ASTM Test Block:	1657	CAL DUE DATE	12-Aug-24				
WHITE LIGHT INTENSITY:	3530 lux						1.2 to 2.4 ml/100 ml

**PERSON DETAILS**

**REVIEW BY**

INSPECTOR NAME:	<b>M.Shahrad Ahmed</b>	SENIOR INSPECTOR:	<b>NAVEED HUSSAIN</b>	CLIENT:	
QUALIFICATION:	<b>S.A. HALLIBURTON</b>	INSPECTION SUPERVISOR:	<b>HANI ALI</b>	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

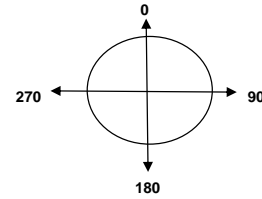
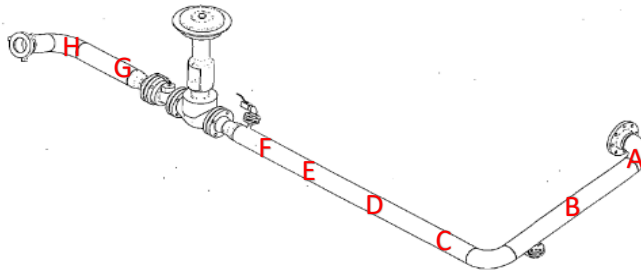


## CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>HALLIBURTON</b>	REPORT No.:	QC-24-05-TSS-HALL-NDT-003
LOCATION:	<b>TSS WORKSHOP &amp; INSPECTION TEST AREA</b>	JOB NO :	QC-24-05-TSS-NDT-HALL-006
WORK ORDER #	326589887	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition H2S STANDARD NACE MR-01-75 Manufacturing Date Book
INSPECTION DATE:	Wednesday, May 15, 2024	INSP. DUE DATE:	<b>Wednesday, May 14, 2025</b>
TYPE OF INSPECTION:	<b>VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING</b>		
DESCRIPTION:	<b>SURGE TANK GAS OUTLET LINE</b>	SAP EQ.NO:	<b>11484046</b>
MANUFACTURER:	<b>SPECIALIST SERVICES</b>	MANUFACTURER SERIAL NO:	<b>FFZ-253</b>

### 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



ONLINE TRACEABILITY

ANGLE	THICKNESS AT POSITION				CORROSION ALLOWANCE	FINAL REMARKS
	0°	90°	180°	270°		
A	7.34	7.42	7.47	7.59	3 MM	SATISFACTORY
B	7.27	7.34	7.36	7.41		
C	7.33	7.41	7.49	7.37		
D	7.38	7.47	7.50	7.43		
E	7.40	7.48	7.39	7.46		
F	7.36	7.42	7.38	7.50		
G	7.45	7.49	7.52	7.43		
H	7.40	7.42	7.46	7.39		

### 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:	3530 lux						

### PERSON DETAILS

### REVIEW BY

INSPECTOR NAME:	M.Shahzad Ahmad	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT CP-105	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

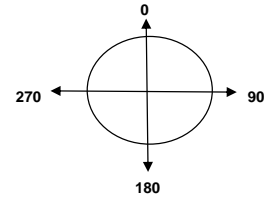
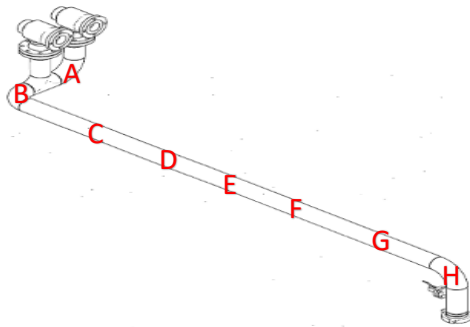


## CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

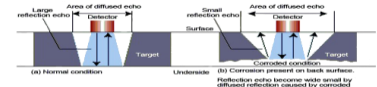
CLIENT:	<b>HALLIBURTON</b>	REPORT No.:	QC-24-05-TSS-HALL-NDT-004
LOCATION:	<b>TSS WORKSHOP &amp; INSPECTION TEST AREA</b>	JOB NO.:	QC-24-05-TSS-NDT-HALL-006
WORK ORDER #	326589887	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition H2S STANDARD NACE MR-01-75 Manufacturing Date Book
INSPECTION DATE:	Wednesday, May 15, 2024	INSP. DUE DATE:	<b>Wednesday, May 14, 2025</b>
TYPE OF INSPECTION:	<b>VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING</b>		
DESCRIPTION:	<b>SURGE TANK RELIEF LINE</b>	SAP EQ.NO:	<b>11484046</b>
MANUFACTURER:	<b>SPECIALIST SERVICES</b>	MANUFACTURER SERIAL NO:	<b>FFZ-253</b>

### 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



ONLINE TRACEABILITY

ANGLE	THICKNESS AT POSITION				CORROSION ALLOWANCE	FINAL REMARKS
	0°	90°	180°	270°		
A	7.18	7.27	7.32	7.44	3 MM	SATISFACTORY
B	7.06	7.13	7.15	7.20		
C	7.09	7.17	7.34	7.22		
D	7.22	7.31	7.34	7.11		
E	7.13	7.21	7.18	7.25		
F	7.12	7.18	7.14	7.26		
G	7.29	7.33	7.36	7.27		
H	7.24	7.26	7.30	7.23		

### 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:	3530 lux						

### PERSON DETAILS

### REVIEW BY

INSPECTOR NAME:	M. Shahrad Ahmad	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:		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

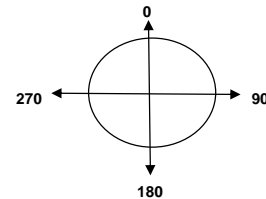


## CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>HALLIBURTON</b>	REPORT No.:	QC-24-05-TSS-HALL-NDT-005
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-24-05-TSS-NDT-HALL-006
WORK ORDER #	326589887	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition H2S STANDARD NACE MR-01-75 Manufacturing Date Book
INSPECTION DATE:	Wednesday, May 15, 2024	INSP. DUE DATE:	<b>Wednesday, May 14, 2025</b>
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SURGE TANK INLET LINE	SAP EQ.NO:	11484046
MANUFACTURER:	SPECIALIST SERVICES	MANUFACTURER SERIAL NO:	FFZ-253

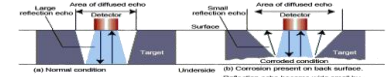
### INSPECTION DETAILS



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

\* ALL READINGS IN MM

\*\*MINIMUM THICKNESS PROVIDED BY CUSTOMER



ONLINE TRACEABILITY

ANGLE	THICKNESS AT POSITION				CORROSION ALLOWANCE	FINAL REMARKS
	0°	90°	180°	270°		
A	7.23	7.32	7.37	7.49	3 MM	SATISFACTORY
B	7.16	7.23	7.25	7.30		
C	7.22	7.30	7.39	7.27		
D	7.27	7.36	7.39	7.32		
E	7.29	7.37	7.28	7.35		
F	7.25	7.31	7.27	7.39		

### 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:	3530 lux						

### PERSON DETAILS

### REVIEW BY

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	NDT Level II	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

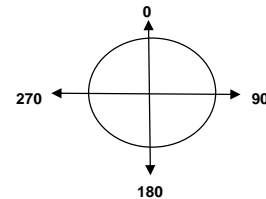
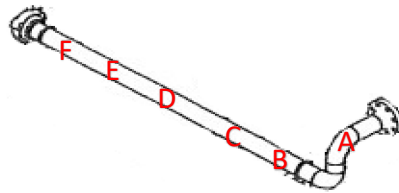


## CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>HALLIBURTON</b>	REPORT No.:	QC-24-05-TSS-HALL-NDT-006
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-24-05-TSS-NDT-HALL-006
WORK ORDER #	326589887	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition H2S STANDARD NACE MR-01-75 Manufacturing Date Book
INSPECTION DATE:	Wednesday, May 15, 2024	INSP. DUE DATE:	<b>Wednesday, May 14, 2025</b>
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SURGE TANK BYPASS LINE	SAP EQ.NO:	11484046
MANUFACTURER:	SPECIALIST SERVICES	MANUFACTURER SERIAL NO:	FFZ-253

### 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				CORROSION ALLOWANCE	FINAL REMARKS
	0°	90°	180°	270°		
A	6.82	6.91	6.96	7.08	3 MM	SATISFACTORY
B	6.70	6.77	6.79	6.84		
C	6.76	6.84	6.98	6.86		
D	6.66	6.75	6.78	6.71		
E	6.83	6.91	6.82	6.89		
F	6.98	7.04	7.00	7.12		

### 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:	3530 lux						

### PERSON DETAILS

### REVIEW BY

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	AI TAKAMUL	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

Original - Client Files Copy - Area Office QC/EN/PT/077 Rev.00 DATED 07.NOV. 2021



# AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

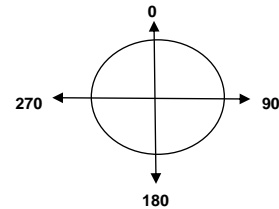
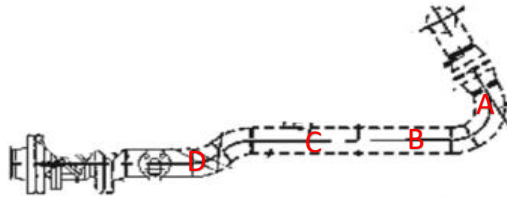


## CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>HALLIBURTON</b>	REPORT No.:	QC-24-05-TSS-HALL-NDT-007
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-24-05-TSS-NDT-HALL-006
WORK ORDER #	326589887	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition H2S STANDARD NACE MR-01-75 Manufacturing Date Book
INSPECTION DATE:	Wednesday, May 15, 2024	INSP. DUE DATE:	<b>Wednesday, May 14, 2025</b>
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SURGE TANK OIL OUTLET LINE	SAP EQ.NO:	11484046
MANUFACTURER:	SPECIALIST SERVICES	MANUFACTURER SERIAL NO:	FFZ-253

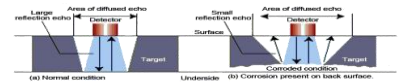
### INSPECTION DETAILS



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				CORROSION ALLOWANCE	FINAL REMARKS
	0°	90°	180°	270°		
A	6.65	6.74	6.79	6.91	3 MM	SATISFACTORY
B	6.51	6.58	6.60	6.65		
C	6.57	6.65	6.81	6.69		
D	6.77	6.86	6.89	6.82		

### 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:	3630 lux						

### PERSON DETAILS



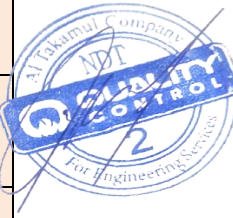
### REVIEW BY

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	LEVEL 2	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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## CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

<b>Client:</b>	HALLIBURTON (TSS)	<b>Report No:</b>	QC-24-05-TSS-NDT-008						
<b>Location:</b>	TSS WORKSHOP & INSPECTION TEST AREA	<b>WORK ORDER</b>	326589887						
<b>Date:</b>	Wednesday, May 15, 2024	<b>Next Inspection Date:</b>	Wednesday, May 14, 2025						
<b>Type Of Inspection:</b>	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	<b>Specification:</b>	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)						
		<b>UNIT DESCRIPTION:</b>	3" BALON VALVE 600						
		<b>UNIT S/N:</b>	4 FMQ						
		<b>SURGE TANK SAP NO:</b>	11484046						
		<b>INSPECTION RESULT :</b>							
		<b>VISUAL , THOROUGH EXAMINATION</b>	VISUAL & MAGNETIC PARTICLE INSPECTION ( M.P.I. ) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION						
		<b>MAGNETIC PARTICLE INSPECTION</b>	Available critical areas inspected and found free from cracks and other defects						
		<b>FINAL RESULTS</b>	THE ABOVE INSPECTED AREAS WAS ACCEPTED						
<b>COMMENT:</b>									
Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast									
<b>EQUIPMENT DETAILS</b>						<b>PERSON DETAILS</b>		<b>REVIEW BY</b>	
<b>Equipment:</b>	AC-Yoke Test Block	<b>Equipment:</b>	Digital Lux Meter	<b>Equipment:</b>	AC/DC Yoke	<b>INSPECTOR NAME:</b>	M.Shahzad Ahmed	<b>SENIOR INSPECTOR:</b>	NAVEED HUSSAIN
<b>S.No:</b>	1657	<b>S.No:</b>	2722003	<b>S.No:</b>	201504052			<b>SUPERVISOR:</b>	HANI ALI
<b>Cal Due Date:</b>	12-Aug-24	<b>Cal Due Date:</b>	14-Aug-24	<b>Cal Due Date:</b>	12-Aug-24			<b>CLIENT:</b>	
<b>Black Magnetic Ink Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220605	<b>Expiry Date:</b>	JULY.2025				
<b>White Contrast Paint Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220602	<b>Expiry Date:</b>	JUN.2025	<b>STAMP &amp; SIGNATURE:</b>			
<b>Technical Details:</b>	<b>Magnetic Partical Concentration</b>		<b>Method</b>		<b>WMPT Light Intensity</b>				
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3530 Lux				
Original - Client Files      Copy - Area Office      QC/FN/MPI/065      Rev.00      DATED 07 Nov 2021									



Corporate Partner





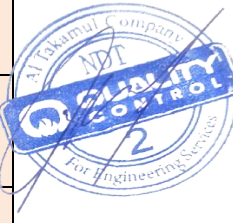
Address: Noth Rumaila, Al Takamul Yard  
Contact: +9647810009138

Tel: +9647810009138 / +9647834964657

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



## CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

<b>Client:</b>	HALLIBURTON (TSS)	<b>Report No:</b>	QC-24-05-TSS-NDT-009						
<b>Location:</b>	TSS WORKSHOP & INSPECTION TEST AREA	<b>WORK ORDER</b>	326589887						
<b>Date:</b>	Wednesday, May 15, 2024	<b>Next Inspection Date:</b>	Wednesday, May 14, 2025						
<b>Type Of Inspection:</b>	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	<b>Specification:</b>	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)						
		<b>UNIT DESCRIPTION:</b>	3" BALON VALVE 600						
		<b>UNIT S/N:</b>	3 FMP						
		<b>SURGE TANK SAP NO:</b>	11484046						
		<b>INSPECTION RESULT :</b>							
		<b>VISUAL , THOROUGH EXAMINATION</b>	VISUAL & MAGNETIC PARTICLE INSPECTION ( M.P.I. ) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION						
		<b>MAGNETIC PARTICLE INSPECTION</b>	Available critical areas inspected and found free from cracks and other defects						
		<b>FINAL RESULTS</b>	THE ABOVE INSPECTED AREAS WAS ACCEPTED						
<b>COMMENT:</b>			Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast						
									
<b>EQUIPMENT DETAILS</b>						<b>PERSON DETAILS</b>		<b>REVIEW BY</b>	
<b>Equipment:</b>	AC-Yoke Test Block	<b>Equipment:</b>	Digital Lux Meter	<b>Equipment:</b>	AC/DC Yoke	<b>INSPECTOR NAME:</b>	M.Shahzad Ahmed	<b>SENIOR INSPECTOR:</b>	NAVEED HUSSAIN
<b>S.No:</b>	1657	<b>S.No:</b>	2722003	<b>S.No:</b>	201504052			<b>SUPERVISOR:</b>	HANI ALI
<b>Cal Due Date:</b>	12-Aug-24	<b>Cal Due Date:</b>	14-Aug-24	<b>Cal Due Date:</b>	12-Aug-24			<b>CLIENT:</b>	
<b>Black Magnetic Ink Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220605	<b>Expiry Date:</b>	JULY.2025				
<b>Whie Contrast Paint Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220602	<b>Expiry Date:</b>	JUN.2025	<b>STAMP &amp; SIGNATURE:</b>			
<b>Technical Details:</b>		<b>Magnetic Partical Concentration</b>		<b>Method</b>		<b>WMPT Light Intensity</b>			
		1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3530 Lux			
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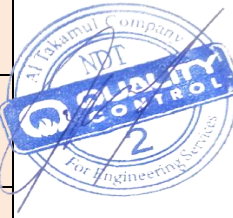


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Contact: +9647810009138

Tel: +9647810009138 / +9647834964657

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

## CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

<b>Client:</b>	HALLIBURTON (TSS)	<b>Report No:</b>	QC-24-05-TSS-NDT-010						
<b>Location:</b>	TSS WORKSHOP & INSPECTION TEST AREA	<b>WORK ORDER</b>	326589887						
<b>Date:</b>	Wednesday, May 15, 2024	<b>Next Inspection Date:</b>	Wednesday, May 14, 2025						
<b>Type Of Inspection:</b>	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	<b>Specification:</b>	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)						
		<b>UNIT DESCRIPTION:</b>	3" BALON VALVE 150 CL						
		<b>UNIT S/N:</b>	4 GZL						
		<b>SURGE TANK SAP NO:</b>	11484046						
		<b>INSPECTION RESULT :</b>							
		<b>VISUAL , THOROUGH EXAMINATION</b>	VISUAL & MAGNETIC PARTICLE INSPECTION ( M.P.I. ) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION						
		<b>MAGNETIC PARTICLE INSPECTION</b>	Available critical areas inspected and found free from cracks and other defects						
		<b>FINAL RESULTS</b>	THE ABOVE INSPECTED AREAS WAS ACCEPTED						
<b>COMMENT:</b>			Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast						
									
<b>EQUIPMENT DETAILS</b>						<b>PERSON DETAILS</b>		<b>REVIEW BY</b>	
<b>Equipment:</b>	AC-Yoke Test Block	<b>Equipment:</b>	Digital Lux Meter	<b>Equipment:</b>	AC/DC Yoke	<b>INSPECTOR NAME:</b>	M.Shahzad Ahmed	<b>SENIOR INSPECTOR:</b>	NAVEED HUSSAIN
<b>S.No:</b>	1657	<b>S.No:</b>	2722003	<b>S.No:</b>	201504052			<b>SUPERVISOR:</b>	HANI ALI
<b>Cal Due Date:</b>	12-Aug-24	<b>Cal Due Date:</b>	14-Aug-24	<b>Cal Due Date:</b>	12-Aug-24			<b>CLIENT:</b>	
<b>Black Magnetic Ink Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220605	<b>Expiry Date:</b>	JULY.2025				
<b>White Contrast Paint Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220602	<b>Expiry Date:</b>	JUN.2025	<b>STAMP &amp; SIGNATURE:</b>			
<b>Technical Details:</b>		<b>Magnetic Partical Concentration</b>		<b>Method</b>		<b>WMPT Light Intensity</b>			
		1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3530 Lux			
Original - Client Files      Copy - Area Office      QC/FN/MPI/065      Rev.00      DATED 07 Nov 2021									



Corporate Partner



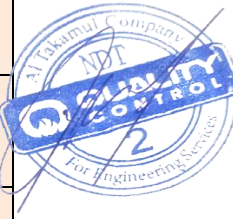
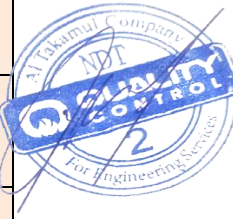
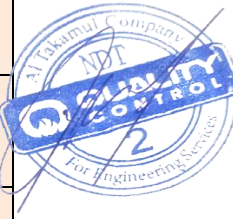


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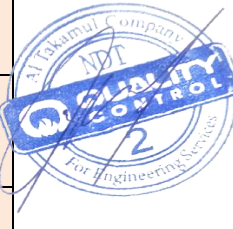
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Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com

## CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

<b>Client:</b>	HALLIBURTON (TSS)	<b>Report No:</b>	QC-24-05-TSS-NDT-011																																																																											
<b>Location:</b>	TSS WORKSHOP & INSPECTION TEST AREA	<b>WORK ORDER</b>	326589887																																																																											
<b>Date:</b>	Wednesday, May 15, 2024	<b>Next Inspection Date:</b>	Wednesday, May 14, 2025																																																																											
<b>Type Of Inspection:</b>	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	<b>Specification:</b>	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)																																																																											
		<b>UNIT DESCRIPTION:</b>	3" BALON VALVE 150 CL																																																																											
		<b>UNIT S/N:</b>	9 GZM																																																																											
		<b>SURGE TANK SAP NO:</b>	11484046																																																																											
		<b>INSPECTION RESULT :</b>																																																																												
		<b>VISUAL , THOROUGH EXAMINATION</b>	VISUAL & MAGNETIC PARTICLE INSPECTION ( M.P.I. ) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION																																																																											
		<b>MAGNETIC PARTICLE INSPECTION</b>	Available critical areas inspected and found free from cracks and other defects																																																																											
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Original - Client Files      Copy - Area Office      QC/FN/MPI/065      Rev.00      DATED 07 Nov 2021																																																																														

## CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

<b>Client:</b>	HALLIBURTON (TSS)	<b>Report No:</b>	QC-24-05-TSS-NDT-012						
<b>Location:</b>	TSS WORKSHOP & INSPECTION TEST AREA	<b>WORK ORDER</b>	326589887						
<b>Date:</b>	Wednesday, May 15, 2024	<b>Next Inspection Date:</b>	Wednesday, May 14, 2025						
<b>Type Of Inspection:</b>	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	<b>Specification:</b>	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)						
		<b>UNIT DESCRIPTION:</b>	3" BALON VALVE 150 CL						
		<b>UNIT S/N:</b>	1 OZL						
		<b>SURGE TANK SAP NO:</b>	11484046						
		<b>INSPECTION RESULT :</b>							
		<b>VISUAL , THOROUGH EXAMINATION</b>	VISUAL & MAGNETIC PARTICLE INSPECTION ( M.P.I. ) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION						
		<b>MAGNETIC PARTICLE INSPECTION</b>	Available critical areas inspected and found free from cracks and other defects						
<b>FINAL RESULTS</b>		THE ABOVE INSPECTED AREAS WAS ACCEPTED							
<b>COMMENT:</b> Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast									
									
<b>EQUIPMENT DETAILS</b>						<b>PERSON DETAILS</b>		<b>REVIEW BY</b>	
<b>Equipment:</b>	AC-Yoke Test Block	<b>Equipment:</b>	Digital Lux Meter	<b>Equipment:</b>	AC/DC Yoke	<b>INSPECTOR NAME:</b>	M.Shahzad Ahmed	<b>SENIOR INSPECTOR:</b>	NAVEED HUSSAIN
<b>S.No:</b>	1657	<b>S.No:</b>	2722003	<b>S.No:</b>	201504052	<b>QUALIFICATION</b> ASNT LEVEL II MT & PT & VT		<b>SUPERVISOR:</b>	HANI ALI
<b>Cal Due Date:</b>	12-Aug-24	<b>Cal Due Date:</b>	14-Aug-24	<b>Cal Due Date:</b>	12-Aug-24			<b>CLIENT:</b>	
<b>Black Magnetic Ink Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220605	<b>Expiry Date:</b>	JULY.2025				
<b>White Contrast Paint Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220602	<b>Expiry Date:</b>	JUN.2025				
<b>Technical Details:</b>	<b>Magnetic Partical Concentration</b>		<b>Method</b>		<b>WMPT Light Intensity</b>	<b>STAMP &amp; SIGNATURE:</b>			
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3530 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

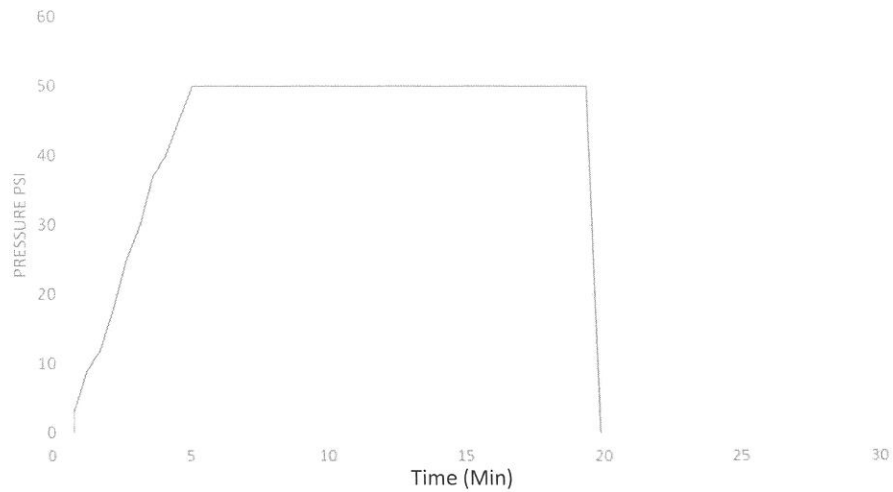
Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com

## 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	8:50 AM
Test Date	15-May-24
EQ NUMBER	11484046
LAST CALIB	2.Aug.2023

### READING



TESTED BY : Tarek Bekhit  
APPROVED BY: Hassan Kamel  
COMMENTS: Body Test



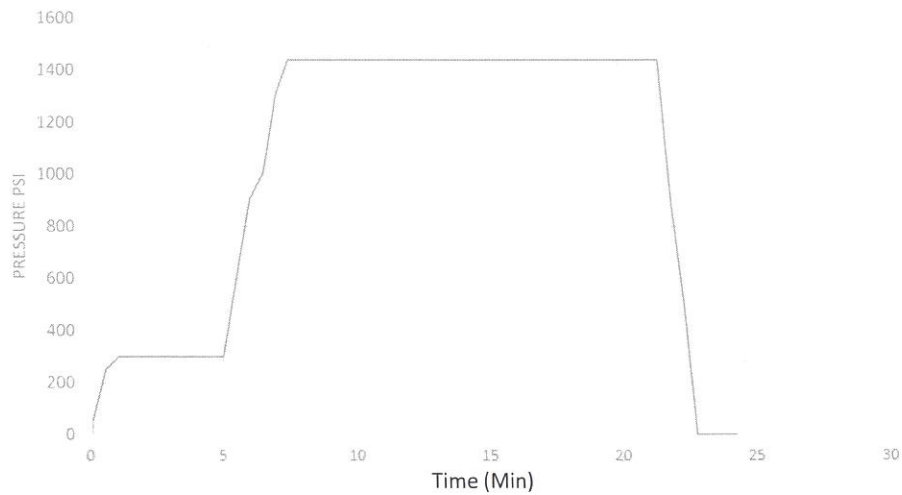


## Data Collection Report

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

Run Info	
Start Time	8:55 AM
Stop Time	9:18 AM
Test Date	15-May-24
EQ NUMBER	11484046
LAST CALIB	2.Aug.2023

### READING



TESTED BY : Tarek Bekhit  
APPROVED BY: Hassan Kamel  
COMMENTS: Inlet and bypass

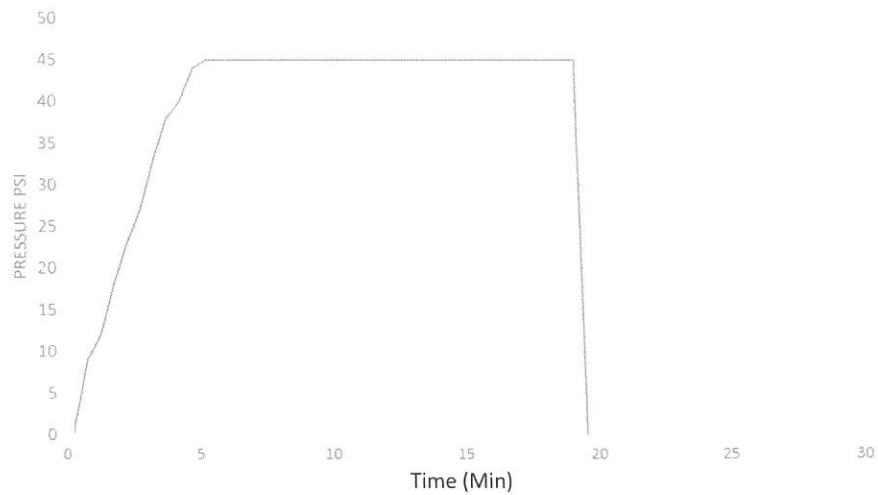


## Data Collection Report

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

Run Info	
Start Time	10:00 AM
Stop Time	10:19 AM
Test Date	15-May-24
EQ NUMBER	11484046
LAST CALIB	2.Aug.2023

### READING



TESTED BY : Tarek Bekhit  
APPROVED BY: Hassan Kamel  
COMMENTS: Body Test with PRVs

