

**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**

Basra, North Rumaila, Quality Control Yard - Iraq

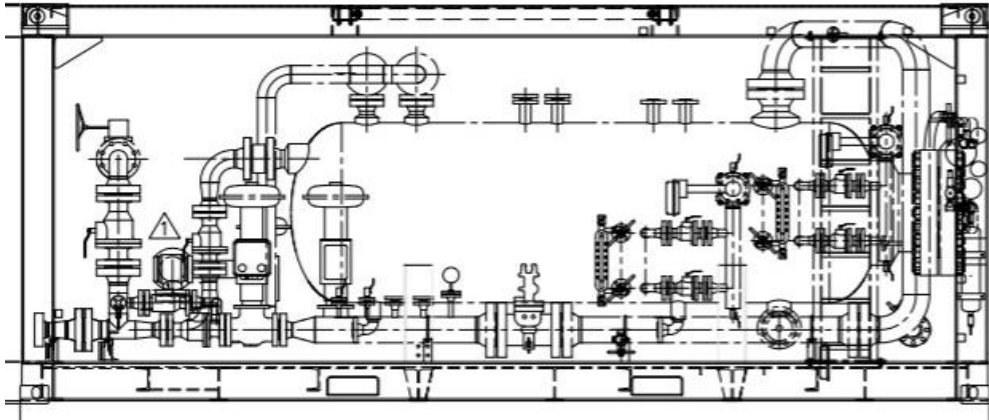


CERTIFICATE OF QUALIFICATION VISUAL AND WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-HALL-NDT-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-24-05-TSS-NDT-HALL-001
WORK ORDER #	326631913	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition , ASME B31.3
DATE OF INSPECTION :	Sunday, May 26, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND WITNESS PRESSURE TEST		

DESCRIPTION:	SEPARATOR VESSEL 1440PSI	SAP EQ,NO	12405458
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 Separator 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 Separator 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:	M.shazad	CLIENT:	
QUALIFICATION:	S.T.U. (ASNT), PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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



MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-HALL-NDT-002
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-25-05-TSS-NDT-HALL-001
WORK ORDER #	326631913	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, May 24, 2024	INSP. DUE DATE:	ANNUAL INSPECTION

TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SEPARATOR VESSEL 1440PSI	SAP EQ.NO:	12405458
MANUFACTURER:	OIL WELL MIDDLE EAST	MANUFACTURER SERIAL NO:	C-0126
LETT SIDE & RIGHT SIDE MINIMUM THICKNESS	47 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

ANGLE	THICKNESS AT POSITION			MINIMUM THICKNESS	CORROSION ALLOWANCE	FINAL REMARKS		
	120°	240°	360°					
LEFT SIDE A1	50.40	50.45	50.25	47 MM	3 MM	SATISFACTORY		
LEFT SIDE A2	50.45	50.25	50.36					
LEFT SIDE A3	52.56	51.69	52.70					
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				
SHELL C	56.93	55.93	56.39	50 MM				
SHELL D	54.39	56.30	56.40					
SHELL E	55.60	55.61	55.62					
SHELL F	56.41	56.52	56.42					
SHELL G	54.45	54.52	56.45					
SHELL H	54.55	54.56	56.65					
SHELL I	54.81	54.89	56.45					

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	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:	3680 lux						

PERSON DETAILS		REVIEW BY	
INSPECTOR NAME:		SENIOR INSPECTOR:	M.SHAZAD
QUALIFICATION:	ASNT LEVEL II MT,PT,UT,VT,	INSPECTION SUPERVISOR:	HANI ALI
SIGNATURE & STAMP:			

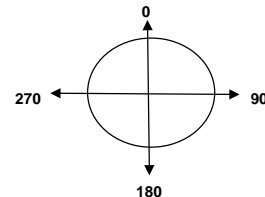
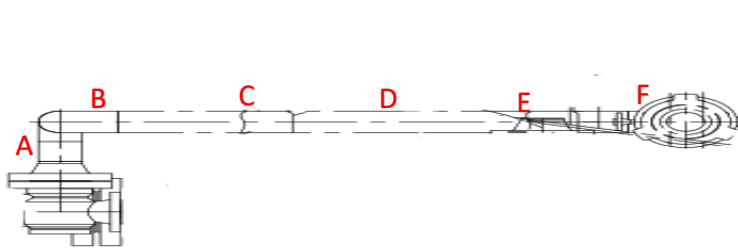


MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-HALL-NDT-003
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-25-05-TSS-NDT-HALL-001
WORK ORDER #	326631913	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, May 24, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SEPARATOR RELIEF LINE	SAP EQ.NO:	12405458
MANUFACTURER:	OIL WELL MIDDLE EAST	MANUFACTURER SERIAL NO:	C-0126

INSPECTION DETAILS

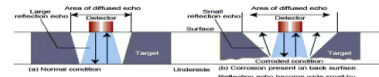


A:12°O CLOCK / FORWARD
B:3°O CLOCK / CENTER
C:6°O CLOCK / AFT

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



ONLINE TRACEABILITY



ANGLE	THICKNESS AT POSITION				CORROSION ALLOWANCE	FINAL REMARKS
	0°	90°	180°	270°		
A	9.12	9.40	9.25	9.21	3 MM	SATISFACTORY
B	9.21	9.24	9.23	9.26		
C	9.23	9.23	9.25	9.56		
D	9.41	9.25	9.52	9.51		
E	9.42	9.43	9.41	9.59		
F	9.41	9.48	9.45	9.64		

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

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INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504052	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:	3680 lux						

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:		SENIOR INSPECTOR:	M.SHAZAD	CLIENT:	
QUALIFICATION:	LEVEL II M.P.I, U.T, VT.	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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

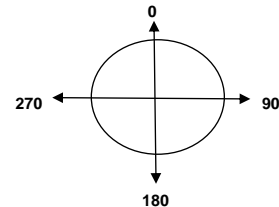
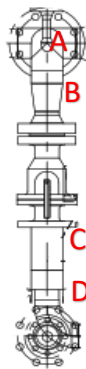


MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-HALL-NDT-004
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-25-05-TSS-NDT-HALL-001
WORK ORDER #	326631913	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, May 24, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SEPARATOR INLET LINE	SAP EQ.NO:	12405458
MANUFACTURER:	OIL WELL MIDDLE EAST	MANUFACTURER SERIAL NO:	C-0126

INSPECTION DETAILS

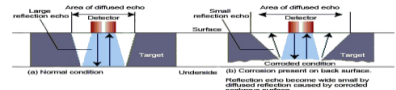


A:12'O CLOCK / FORWARD
B:3'O CLOCK / CENTER
C:6'O CLOCK / AFT

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



ONLINE TRACEABILITY



ANGLE	THICKNESS AT POSITION				CORROSION ALLOWANCE	FINAL REMARKS
	0°	90°	180°	270°		
A	7.37	8.01	8.20	8.25	3 MM	SATISFACTORY
B	7.35	7.25	7.40	8.23		
C	7.45	7.41	7.42	7.43		
D	7.49	7.14	7.42	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

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INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504052	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:	3680 lux						

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:		SENIOR INSPECTOR:	M.SHAZAD	CLIENT:	
QUALIFICATION:	ASNT CP-UT/VT	INSPECTION SUPERVISOR:	HANI ALI	HR&SIGN	
SIGNATURE & STAMP:				DATE:	

MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-HALL-NDT-005
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-25-05-TSS-NDT-HALL-001
WORK ORDER #	326631913	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, May 24, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SEPARATOR OIL OUT LINE	SAP EQ.NO:	12405458
MANUFACTURER:	OIL WELL MIDDLE EAST	MANUFACTURER SERIAL NO:	C-0126

INSPECTION DETAILS

ANGLE	THICKNESS AT POSITION				CORROSION ALLOWANCE	FINAL REMARKS
	0°	180°	270°	90°		
A	8.19	8.20	8.11	8.12	3MM	SATISFACTORY
B	7.45	7.41	7.45	7.25		
C	7.35	7.55	7.58	7.60		
D	7.61	7.56	7.58	7.52		
E	7.21	7.23	7.33	7.40		
F	7.41	7.45	7.49	7.58		
G	7.45	7.50	7.58	7.60		
H	7.61	7.62	7.63	7.64		
I	7.65	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

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	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:	3680 lux						

PERSON DETAILS

REVIEW BY

INSPECTOR NAME:	Umar Al-Jabbar	SENIOR INSPECTOR:	M.SHAZAD	CLIENT:	
QUALIFICATION:	S.N.T, MT, PT, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HR&SIGN	
SIGNATURE & STAMP:				DATE:	

MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-HALL-NDT-006
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-25-05-TSS-NDT-HALL-001
WORK ORDER #	326631913	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, May 24, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SEPARATOR GAS OUT LINE	SAP EQ.NO:	12405458
MANUFACTURER:	OIL WELL MIDDLE EAST	MANUFACTURER SERIAL NO:	C-0126

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	11.39	11.41		
G	11.25	11.36	11.25	11.36		
H	11.50	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	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:	3680 lux						

PERSON DETAILS

REVIEW BY

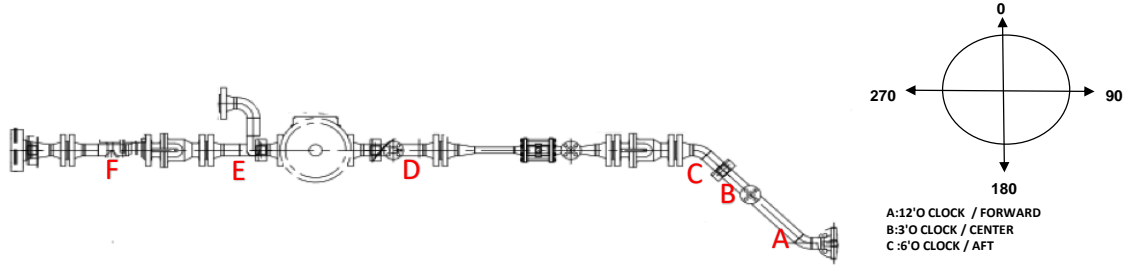
INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	M.SHAZAD	CLIENT:	
QUALIFICATION:	ASNT CP-1, CP-2, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HR&SIGN	
SIGNATURE & STAMP:				DATE:	

MAJOR INSPECTION CERTIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

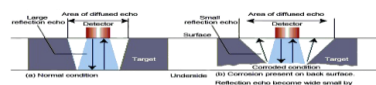
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LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	QC-25-05-TSS-NDT-HALL-001
WORK ORDER #	326631913	SPECIFICATION:	ASME SECTION VIII DIV 1 Latest Edition Manufacturing Date Book
INSPECTION DATE:	Friday, May 24, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	SEPARATOR WATER OUT LINE	SAP EQ.NO:	12405458
MANUFACTURER:	OIL WELL MIDDLE EAST	MANUFACTURER SERIAL NO:	C-0126


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	8.45	8.20	8.11	8.12	3 MM	SATISFACTORY
B	7.21	7.41	7.45	7.26		
C	7.32	7.40	7.52	7.25		
D	7.61	7.56	7.58	7.52		
E	7.21	7.23	7.31	7.15		
F	7.41	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


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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	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:	3680 lux						

PERSON DETAILS




REVIEW BY

INSPECTOR NAME:		SENIOR INSPECTOR:	M.SHAZAD	CLIENT:	
QUALIFICATION:	LEVEL II MT,PT,UT,VT	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	



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





MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-008
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)
		UNIT DESCRIPTION:	3" BALON VALVE 600
		UNIT S/N:	011P3
		SEPARATOR SAP NO:	12405458
		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	Availible 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			
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter
S.No:	1657	S.No:	2722003
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602
Equipment:	AC/DC Yoke	Equipment:	AC/DC Yoke
S.No:	201504052	S.No:	201504052
Cal Due Date:	14-Oct-24	Cal Due Date:	14-Oct-24
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602
Expiry Date:	JULY,2025	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)	3620 Lux
Original - Client Files		Copy - Area Office	
QC/FN/MPI/065		Rev.00 DATED 07 Nov 2021	
PERSON DETAILS		REVIEW BY	
INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	M.SHAZAD
QUALIFICATION	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
STAMP & SIGNATURE:		CLIENT:	

MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-009				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	3" BALON VALVE 600				
		UNIT S/N:	0147y				
		SEPARATOR SAP NO:	12405458				
		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	Availible 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:
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR:
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration	Method		WMPT Light Intensity			
	1.2 to 2.4 ml/100 ml	Wet Magnetic Particle Testing (WMPT)		3620 Lux			
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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-010				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	3" BALON VALVE 600				
		UNIT S/N:	011P6				
		SEPARATOR SAP NO:	12405458				
		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: M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR: HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration 1.2 to 2.4 ml/100 ml	Method Wet Magnetic Particle Testing (WMPT)	WMPT Light Intensity 3620 Lux				



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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-011				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	2" BALON VALVE 600				
		UNIT S/N:	2QAZ				
		SEPARATOR SAP NO:	12405458				
		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	Availible 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: M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR: HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration 1.2 to 2.4 ml/100 ml	Method Wet Magnetic Particle Testing (WMPT)	WMPT Light Intensity 3620 Lux				

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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-012				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	2" BALON VALVE 600				
		UNIT S/N:	6QAZ				
		SEPARATOR SAP NO:	12405458				
		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	Availible 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: M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR: HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration	Method		WMPT Light Intensity			
	1.2 to 2.4 ml/100 ml	Wet Magnetic Particle Testing (WMPT)		3620 Lux			
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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-013				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	2" BALON VALVE 600				
		UNIT S/N:	3QAZ				
		SEPARATOR SAP NO:	12405458				
		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	Availible 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: M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR: HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration 1.2 to 2.4 ml/100 ml	Method Wet Magnetic Particle Testing (WMPT)	WMPT Light Intensity 3620 Lux				



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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-014				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	3" BALON VALVE 600				
		UNIT S/N:	01486				
		SEPARATOR SAP NO:	12405458				
		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: M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR: HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration 1.2 to 2.4 ml/100 ml	Method Wet Magnetic Particle Testing (WMPT)	WMPT Light Intensity 3620 Lux				



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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-015				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	4" BALON VALVE 600				
		UNIT S/N:	00MSK				
		SEPARATOR SAP NO:	12405458				
		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	Availible 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: M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR: HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration 1.2 to 2.4 ml/100 ml	Method Wet Magnetic Particle Testing (WMPT)	WMPT Light Intensity 3620 Lux				

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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-016						
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913						
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION						
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)						
	UNIT DESCRIPTION:	3" BALON VALVE 600							
	UNIT S/N:	0148D							
	SEPARATOR SAP NO:	12405458							
	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:	M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052			SUPERVISOR:	HANI ALI
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	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)		3620 Lux				
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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-017				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	2" BALON VALVE 600				
		UNIT S/N:	4QAZ				
		SEPARATOR SAP NO:	12405458				
		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	Availible 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: M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR: HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration 1.2 to 2.4 ml/100 ml	Method Wet Magnetic Particle Testing (WMPT)	WMPT Light Intensity 3620 Lux				

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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-018
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)
		UNIT DESCRIPTION:	2" BALON VALVE 600
		UNIT S/N:	50BA
		SEPARATOR SAP NO:	12405458
		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	Availible 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			
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter
S.No:	1657	S.No:	2722003
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602
Equipment:	AC/DC Yoke	S.No:	201504052
Cal Due Date:	14-Oct-24	Cal Due Date:	14-Oct-24
Expiry Date:	JULY.2025	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)	3620 Lux
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PERSON DETAILS		REVIEW BY	
INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	M. SHAZAD
QUALIFICATION	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
STAMP & SIGNATURE:		CLIENT:	

MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-019				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
	UNIT DESCRIPTION:	2" BALON VALVE 600					
	UNIT S/N:	90BA					
	SEPARATOR SAP NO:	12405458					
	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:
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION	SUPERVISOR:
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration	Method		WMPT Light Intensity			
	1.2 to 2.4 ml/100 ml	Wet Magnetic Particle Testing (WMPT)		3620 Lux			
Original - Client Files		Copy - Area Office		QC/FN/MPI/065 Rev.00 DATED 07 Nov 2021			



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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-020				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	2" BALON VALVE 600				
		UNIT S/N:	9QBA				
		SEPARATOR SAP NO:	12405458				
		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: M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR: HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration 1.2 to 2.4 ml/100 ml	Method Wet Magnetic Particle Testing (WMPT)	WMPT Light Intensity 3620 Lux				



Corporate Partner






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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-021
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)
		UNIT DESCRIPTION:	3" BALON VALVE 600
		UNIT S/N:	01484
		SEPARATOR SAP NO:	12405458
		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	Availible 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			
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter
S.No:	1657	S.No:	2722003
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602
Equipment:	AC/DC Yoke	S.No:	201504052
Cal Due Date:	14-Oct-24	Cal Due Date:	14-Oct-24
Expiry Date:	JULY.2025	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)	3620 Lux
Original - Client Files		Copy - Area Office	
QC/FN/MPI/065		Rev.00 DATED 07 Nov 2021	
PERSON DETAILS		REVIEW BY	
INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	M. SHAZAD
QUALIFICATION	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
STAMP & SIGNATURE:		CLIENT:	

MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-022						
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913						
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION						
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)						
	UNIT DESCRIPTION:	1 1/2" BALON VALVE 600							
	UNIT S/N:	B01							
	SEPARATOR SAP NO:	12405458							
	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:	M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052			QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR:
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)		3620 Lux				
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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-023				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	1 1/2" BALON VALVE 600				
		UNIT S/N:	B02				
		SEPARATOR SAP NO:	12405458				
		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: M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR: HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration 1.2 to 2.4 ml/100 ml	Method Wet Magnetic Particle Testing (WMPT)	WMPT Light Intensity 3620 Lux				

Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 Nov 2021



Corporate Partner





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MAJOR INSPECTION CERIFICATE

Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-024				
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913				
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)				
		UNIT DESCRIPTION:	1 1/2" BALON VALVE 600				
		UNIT S/N:	B03				
		SEPARATOR SAP NO:	12405458				
		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: M. SHAZAD
S.No:	1657	S.No:	2722003	S.No:	201504052		
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	QUALIFICATION ASNT LEVEL II MT & PT & VT	SUPERVISOR: HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025		
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025	STAMP & SIGNATURE:	CLIENT:
Technical Details:	Magnetic Partical Concentration 1.2 to 2.4 ml/100 ml	Method Wet Magnetic Particle Testing (WMPT)	WMPT Light Intensity 3620 Lux				

Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 Nov 2021

MAJOR INSPECTION CERIFICATE

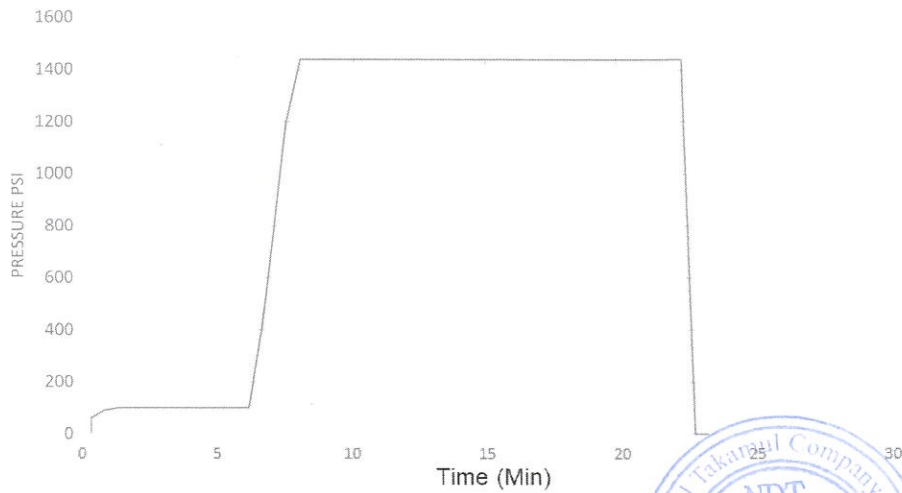
Client:	HALLIBURTON (TSS)	Report No:	QC-25-05-TSS-NDT-025
Location:	TSS WORKSHOP & INSPECTION TEST AREA	WORK ORDER	326631913
Date:	Friday, May 24, 2024	Next Inspection Date:	ANNUAL INSPECTION
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)
		UNIT DESCRIPTION:	1 1/2" BALON VALVE 600
		UNIT S/N:	B04
		SEPARATOR SAP NO:	12405458
		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			
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter
S.No:	1657	S.No:	2722003
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602
Equipment:	AC/DC Yoke	S.No:	201504052
Cal Due Date:	14-Oct-24	Cal Due Date:	14-Oct-24
Expiry Date:	JULY.2025	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)	3620 Lux
Original - Client Files		Copy - Area Office	
QC/FN/MPI/065		Rev.00 DATED 07 Nov 2021	
PERSON DETAILS		REVIEW BY	
INSPECTOR NAME:	Usman Shabbir	SENIOR INSPECTOR:	M. SHAZAD
QUALIFICATION	ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
STAMP & SIGNATURE:		CLIENT:	

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	26-May-24
EQ NUMBER	12405458
LAST CALIB	2.Aug.2023

READING



TESTED BY : Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: Body Test

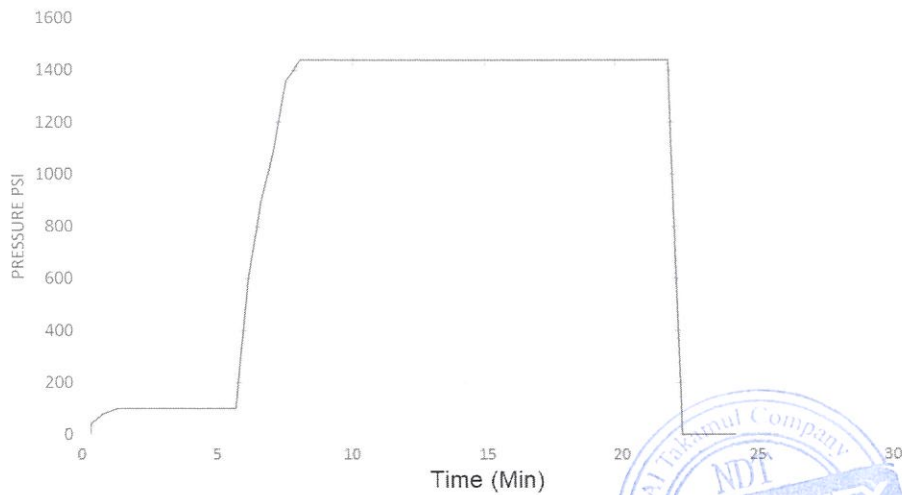


Data Collection Report

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	26-May-24
EQ NUMBER	12405458
LAST CALIB	2.Aug.2023

READING



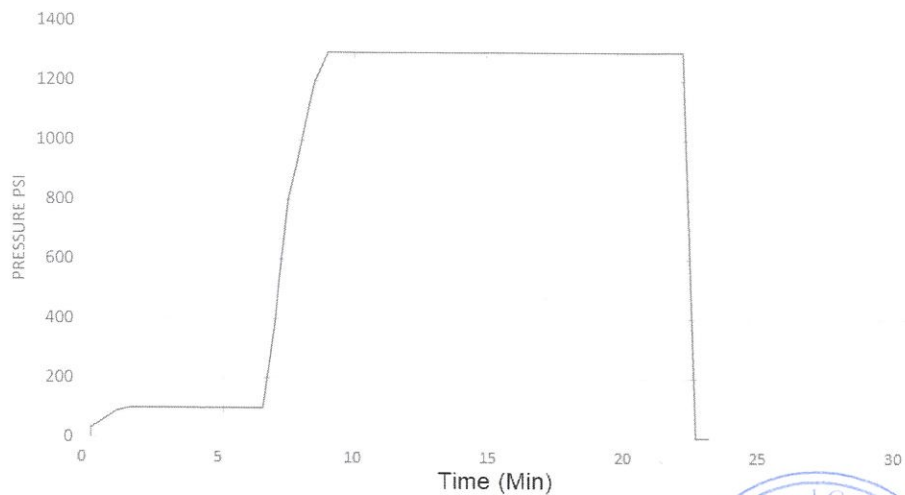
TESTED BY : Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: All valves has been tested

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	26-May-24
EQ NUMBER	12405458
LAST CALIB	2.Aug.2023

READING



TESTED BY : Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: Body Test with PRV's

