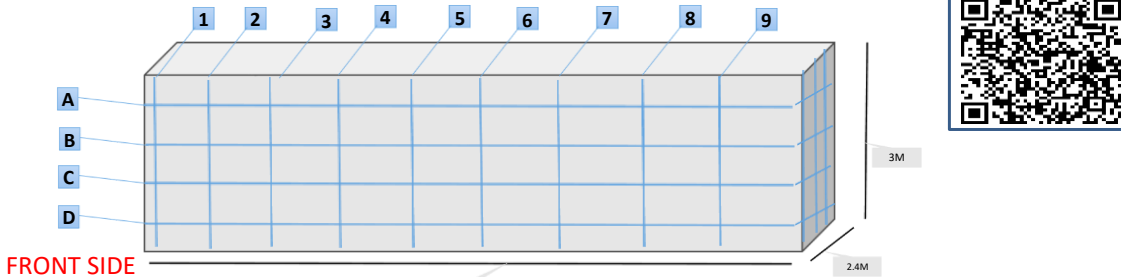


**CERTIFICATE OF QUALIFICATION VISUAL AND ULTRASONIC THICKNESS GAUGING**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	DAQING DRILLING COMPANY	REPORT NO:	QC-DQ-10-24-0240-05
LOCATION:	RIG DQ022	STANDARD:	ASTM E709 & ASTM E797
JOB NO:	QC-BGG-10-24-0158	SPECIFICATION:	OEM Data Book
INSPECTION DATE:	22-Oct-2024	INSPECTION DUE DATE:	21-Oct-2025
TYPE OF INSPECTION:	CERTIFICATE OF QUALIFICATION VISUAL AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	Mud Tank	MFG SERIAL NO:	12-16-30
MANUFACTURER:	N/A	MFG YEAR :	N/A

**INSPECTION DETAILS**



POINT NO.	ANGLE	12M THICKNESS AT POSITION ( mm )				MIN. THICKNESS	REMARKS
		A	B	C	D		
FRONT SIDE	1	5.13	5.03	4.89	5.04	3 mm As client	SATISFACTORY
	2	5.44	5.12	4.95	5.13	3 mm As client	
	3	5.21	5.08	5.23	5.27	3 mm As client	
	4	5.16	5.25	5.16	4.97	3 mm As client	
	5	5.52	5.33	5.22	4.92	3 mm As client	
	6	5.48	5.04	5.17	5.07	3 mm As client	
	7	5.09	5.37	4.97	5.09	3 mm As client	
	8	5.28	5.21	5.16	5.15	3 mm As client	
	9	5.31	5.15	4.98	5.32	3 mm As client	

**INSPECTION RESULT**

VT	Accepted	* According to ASTM E709.
UT	Accepted	** According to Procedure ASTM E797 & OEM Data Book.
Body	Accepted	*** These Are The Actual Readings Need To Follow As Per Manufacturing Date Book

**Inspection Evaluation**

**V.T** The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable

**U.T**-The Above Item Was Found Acceptable As Per Acceptance Criteria ASTM E797 & OEM Data Book

**INSPECTION EQUIPMENT DETAILS**

**TECHNICAL DETAILS**

AC YOKE S.N:	PY-09	CAL DUE DATE	14-Feb-2025	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	14-Feb-2025		Magnaflux	220602	JUN.2025
UT THICKNESS GAUGE:	520750	CAL DUE DATE	14-Feb-2025	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5088	CAL DUE DATE	14-Feb-2025		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-2025	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3640 lux		14-Feb-2025				

**PERSON DETAILS**

**REVIEW BY**

INSPECTOR NAME:	ABDULLAH MOFEED	SENIOR INSPECTOR:	M.SARWAR	CLIENT:	
QUALIFICATION:	ASNT LEVEL II MT, RT, UT, VT.	INSPECTION SUPERVISOR:	RAO SOHAIL	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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

Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

Email: [OP@qualitycontrol-iraq.com](mailto:OP@qualitycontrol-iraq.com) / [hany.akafi@qualitycontrol-iraq.com](mailto:hany.akafi@qualitycontrol-iraq.com)

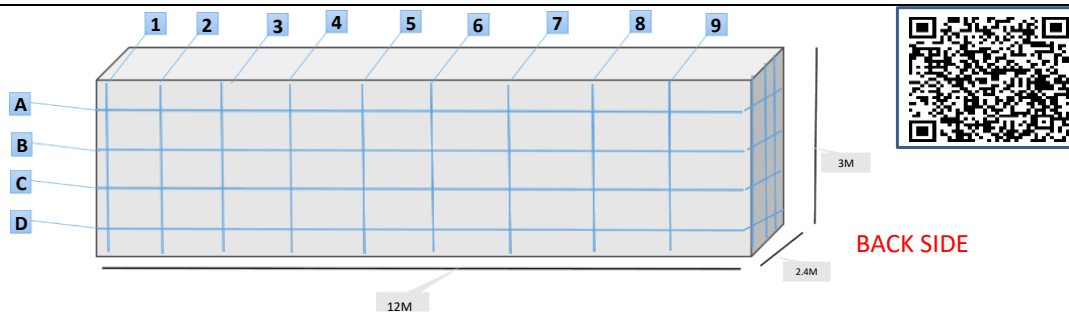


**CERTIFICATE OF QUALIFICATION VISUAL AND ULTRASONIC THICKNESS GAUGING**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	DAQING DRILLING COMPANY	REPORT NO:	QC-DQ-10-24-0240-05A
LOCATION:	RIG DQ022	STANDARD:	ASTM E709 & ASTM E797
JOB NO:	QC-BGG-10-24-0158	SPECIFICATION:	OEM Data Book
INSPECTION DATE:	22-Oct-2024	INSPECTION DUE DATE:	21-Oct-2025
TYPE OF INSPECTION:	CERTIFICATE OF QUALIFICATION VISUAL AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	Mud Tank	MFG SERIAL NO:	12-16-30
MANUFACTURER:	N/A	MFG YEAR :	N/A

**INSPECTION DETAILS**



POINT NO.	ANGLE	THICKNESS AT POSITION ( mm )					REMARKS
		A	B	C	D	MIN. THICKNESS	
FRONT SIDE	1	5.10	5.33	5.42	5.18	3 mm As client	SATISFACTORY
	2	5.16	5.21	5.31	5.22	3 mm As client	
	3	5.01	5.19	5.07	5.14	3 mm As client	
	4	5.32	5.07	5.09	5.35	3 mm As client	
	5	5.03	5.04	4.32	4.97	3 mm As client	
	6	5.15	5.14	5.02	4.84	3 mm As client	
	7	5.23	5.25	4.97	4.88	3 mm As client	
	8	5.20	5.12	4.92	4.99	3 mm As client	
	9	5.26	5.13	5.21	4.85	3 mm As client	

**INSPECTION RESULT**

VT	Accepted	* According to ASTM E709.
UT	Accepted	** According to Procedure ASTM E797 & OEM Data Book.
Body	Accepted	*** These Are The Actual Readings Need To Follow As Per Manufacturing Date Book

**Inspection Evaluation**

**V.T** The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable

**U.T**-The Above Item Was Found Acceptable As Per Acceptance Criteria ASTM E797 & OEM Data Book

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	PY-09	CAL DUE DATE	14-Feb-2025	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter	2722003	CAL DUE DATE	14-Feb-2025		Magnaflux	220602	JUN.2025
WHITE LIGHT				Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT THICKNESS GAUGE:	520750	CAL DUE DATE	14-Feb-2025		Magnaflux	220605	JULY.2025
UT TEST BLOCK:	NoBo5088	CAL DUE DATE	14-Feb-2025	Fluorescent Magnetic Ink 7HF			
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-2025		1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3640 lux						

PERSON DETAILS		REVIEW BY	
INSPECTOR NAME:	ABDULLAH MOFEEED	SENIOR INSPECTOR:	M.SARWAR
QUALIFICATION:	ASNT LEVEL II MT,RT,UT,VT.	INSPECTION SUPERVISOR:	RAO SOHAIL
SIGNATURE & STAMP:		CLIENT:	
		HB&SIGN	
		DATE:	

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

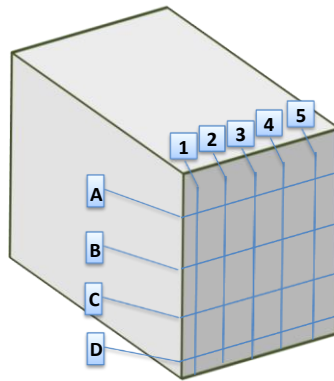


## CERTIFICATE OF QUALIFICATION VISUAL AND ULTRASONIC THICKNESS GAUGING

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	DAQING DRILLING COMPANY	REPORT NO:	QC-DQ-10-24-0240-05B
LOCATION:	RIG DQ022	STANDARD:	ASTM E709 & ASTM E797
JOB NO:	QC-BGG-10-24-0158	SPECIFICATION:	OEM Data Book
INSPECTION DATE:	22-Oct-2024	INSPECTION DUE DATE:	21-Oct-2025
TYPE OF INSPECTION:	CERTIFICATE OF QUALIFICATION VISUAL AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	Mud Tank	MFG SERIAL NO:	12-16-30
MANUFACTURER:	N/A	MFG YEAR :	N/A

### INSPECTION DETAILS



POINT NO.	ANGLE	THICKNESS AT POSITION ( mm )				MIN. THICKNESS	REMARKS
		A	B	C	D		
FRONT SIDE	1	5.29	5.53	5.61	5.08	3 mm As client	SATISFACTORY
	2	5.34	5.59	5.29	5.16	3 mm As client	
	3	5.41	5.42	5.14	5.36	3 mm As client	
	4	5.14	5.22	5.33	5.53	3 mm As client	
	5	5.09	5.53	5.24	5.47	3 mm As client	

#### INSPECTION RESULT

VT	Accepted	* According to ASTM E709.
UT	Accepted	** According to Procedure ASTM E797& OEM Data Book.
Body	Accepted	*** These Are The Actual Readings Need To Follow As Per Manufacturing Date Book

#### Inspection Evaluation

V.T The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable

U.T-The Above Item Was Found Acceptable As Per Acceptance Criteria ASTM E797 & OEM Data Book

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	PY-09	CAL DUE DATE	14-Feb-2025	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	14-Feb-2025		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	520750	CAL DUE DATE	14-Feb-2025	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5088	CAL DUE DATE	14-Feb-2025		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-2025	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3640 lux	CAL DUE DATE	14-Feb-2025				

PERSON DETAILS		REVIEW BY	
INSPECTOR NAME:	ABDULLAH MOFEEED	SENIOR INSPECTOR:	M.SARWAR
QUALIFICATION:	ASNT LEVEL II MR,PT,UT,VT,	INSPECTION SUPERVISOR:	RAO SOHAIL
SIGNATURE & STAMP:		CLIENT:	
		DATE:	

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

Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

Email: [OP@qualitycontrol-iraq.com](mailto:OP@qualitycontrol-iraq.com) / [hany.akafi@qualitycontrol-iraq.com](mailto:hany.akafi@qualitycontrol-iraq.com)

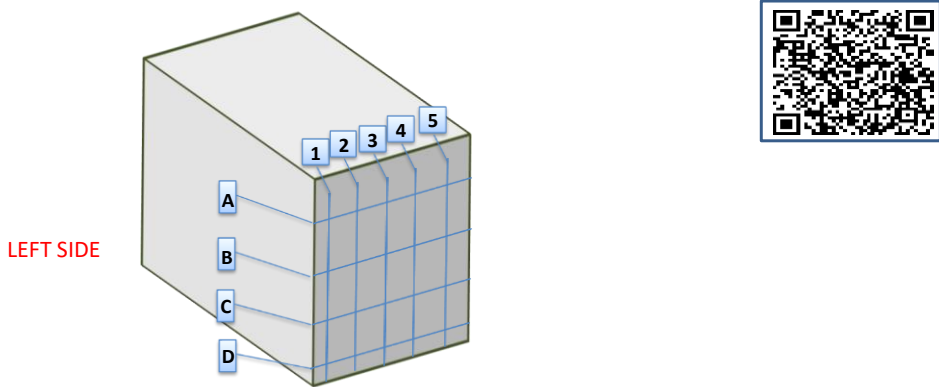


**CERTIFICATE OF QUALIFICATION VISUAL AND ULTRASONIC THICKNESS GAUGING**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	DAQING DRILLING COMPANY	REPORT NO:	QC-DQ-10-24-0240-05C
LOCATION:	RIG DQ022	STANDARD:	ASTM E709 & ASTM E797
JOB NO:	QC-BGG-10-24-0158	SPECIFICATION:	OEM Data Book
INSPECTION DATE:	22-Oct-2024	INSPECTION DUE DATE:	21-Oct-2025
TYPE OF INSPECTION:	CERTIFICATE OF QUALIFICATION VISUAL AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	Mud Tank	MFG SERIAL NO:	12-16-30
MANUFACTURER:	N/A	MFG YEAR :	N/A

**INSPECTION DETAILS**



POINT NO.	ANGLE	THICKNESS AT POSITION ( mm )					REMARKS
		A	B	C	D	MIN. THICKNESS	
FRONT SIDE	1	5.17	5.23	5.17	5.44	3 mm As client	SATISFACTORY
	2	5.63	5.47	5.55	5.62	3 mm As client	
	3	5.42	5.63	5.32	5.32	3 mm As client	
	4	5.09	5.11	5.48	5.12	3 mm As client	
	5	5.44	5.38	5.17	5.19	3 mm As client	

**INSPECTION RESULT**

VT	Accepted	* According to ASTM E709.
UT	Accepted	** According to Procedure ASTM E797& OEM Data Book.
Body	Accepted	*** These Are The Actual Readings Need To Follow As Per Manufacturing Date Book

**Inspection Evaluation**

V.T The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable

U.T-The Above Item Was Found Acceptable As Per Acceptance Criteria ASTM E797 & OEM Data Book

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	PY-09	CAL DUE DATE	14-Feb-2025	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	14-Feb-2025		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	520750	CAL DUE DATE	14-Feb-2025	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5088	CAL DUE DATE	14-Feb-2025		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-2025	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3640 lux		14-Feb-2025				

PERSON DETAILS		REVIEW BY	
INSPECTOR NAME:	ABDULLAH MOFFED	SENIOR INSPECTOR:	M.SARWAR
QUALIFICATION:	ASNT LEVEL II IN MT,PT,UT,VT	INSPECTION SUPERVISOR:	RAO SOHAIL
SIGNATURE & STAMP:		CLIENT:	DATE:

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

