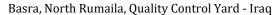
Al TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED



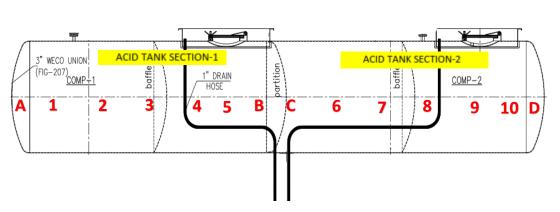


CERTIFICATE OF QUALIFICATION VISUAL INSPECTION, LEAK TEST, LINING THICKNESS AND SPARK TESTING

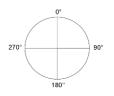
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-TRANSPORT– ACID-24-MAY-001				
LOCATION:	HPS HALLIBURTON YARD BASRA IRAQ	specification	WM-GL-HAL-PE-STIM-202				
INSPECTION DATE:	Thursday, May 9, 2024	Due Date	Thursday, May 8, 2025				
TYPE OF INSPECTION: *VISUAL TESTING (EXTERNAL & INTERNAL) *LEAK TESTING *LINING THICKNESS * SPARK TESTING							
DESCRIPTION:	6200 USG (2 COMP) ACID TANK	ACID TANK SAP NO:	11873941				
MANUFACTURE :	AL SHIRAWI EQUIPMENT COMPANY	LINING COATING MATERLAL:	TIP TOP LINING 74 S				
SPARK TESTER SR NO:	07155	CAL DUE DATE:	16-Oct-2024				
MODEL:	PCWI DC30	TEST VOLTAGE:	0.70 KV				
COATING THICKNESS INSTRUMENT SR.NO	373291	CAL DUE DATE:	15-Oct-2024				

INSPECTION DETAILS







		ACID TANK SECTION-1 LINING THICKNESS MEASURMENTS IN MM							MINIMUM LINING
SAP. NO:	POSITION	HEAD A	BODY POINT 1	BODY POINT 2	BODY POINT 3	BODY POINT 4	BODY POINT 5	HEAD B	THICKNESS IN MM
11873941	0°	3.92	3.94	4.16	4.14	3.83	3.76	3.96	
	90°	4.01	3.89	3.80	3.74	3.76	3.82	4.14	2.7 MM TO 3 MM
	180°	4.04	3.74	3.85	3.92	3.94	3.85	3.97	2.7 101101 1 0 3 101101
	270°	3.86	3.77	3.81	3.84	3.85	3.84	3.86	

		ACID TANK SECTION-2 LINING THICKNESS MEASURMENTS IN MM							MINIMUM LINING
SAP. NO:	POSITION	HEAD C	BODY POINT 6	BODY POINT 7	BODY POINT 8	BODY POINT 9	BODY POINT 10	HEAD D	THICKNESS IN MM
	0°	3.88	3.90	4.14	4.12	3.79	3.72	3.81	
11873941	90°	3.97	3.85	3.76	3.70	3.72	3.78	4.10	2.7 MM TO 3 MM
110/3541	180°	4.09	3.79	3.81	3.88	3.90	3.81	3.93	2.7 101101 10 3 101101
	270°	3.82	3.73	3.77	3.80	3.81	3.80	3.82	

INSPECTION RESULT

SPARK TESTING-The Above Item Was Found Acceptable As Per Manufacture Acceptance Criteria.

LINING THICKNESS-The Above Item Was Found Acceptable As Per Manufacture Acceptance Criteria.

LEAK TESTING-The Above Item Was Found Acceptable As Per Manufacture Acceptance Criteria.

PEF	RSONNEL DETAILS	RE	VIEW BY		
INSPECTOR NAME:	M.S. anzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT NAME:	
QUALIFICATION:	AS IT I LATE OF THE PARTY OF TH	INSPECTION SUPERVISOR:	HANI ALI	DATE:	
STAMP & SIGNATURE:		SIGNATURE:			
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AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

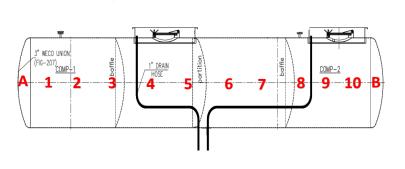


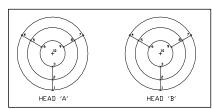
CERTIFICATE OF QUALIFICATION VISUAL INSPECTION & ULTRASONIC WALL THICKNESS MEASUREMENT

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

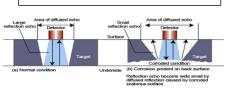
CLIENT:	HALLIBURTON	REPORT No.:	QC-TRANSPORT- ACID-24-MAY-002		
LOCATION:	HPS HALLIBURTON YARD BASRA IRAQ	specification	WM-GL-HAL-PE-STIM-202		
INSPECTION DATE:	Thursday, May 9, 2024	Thursday, May 9, 2024 Due Date			
TYPE OF INSPECTION:	ULTRASONIC WALL THICKNESS MEASUREMENT				
DESCRIPTION:	6200 USG (2 COMP) ACID TANK			
MANUFACTURE :	AL SHIRAWI EQUIPMENT COMPANY	ACID TANK SAP NO:	11873941		
MANUFACTURE : ULTRASONIC THICKNESS GAUGE S.NO:	AL SHIRAWI EQUIPMENT COMPANY 5500391	ACID TANK SAP NO: CAL DUE DATE:	11873941 14-Oct-2024		











360	120
	7
240	

SAP NO:	POSITION	1	THICKNESS AT POSITION		
		120°	180°	240°	MINIMUM WALL THICKNESS
	HEAD A1	0.335	0.344	0.351	
	HEAD A2	0.331	0.329	0.336	
	HEAD B1	0.333	0.331	0.350	
	HEAD B2	0.339	0.344	0.346	
	SHELL 1	0.259	0.267	0.257	
	SHELL 2	0.261	0.272	0.266	
	SHELL 3	0.257	0.249	0.259	4 MM
11873941	SHELL 4	0.265	0.272	0.274	0.157 INCH
	SHELL 5	0.268	0.273	0.270	
	SHELL 6	0.252	0.264	0.254	
	SHELL 7	0.271	0.278	0.266	
	SHELL 8	0.274	0.277	0.275	
	SHELL 9	0.260	0.272	0.278	
	SHELL 10	0.267	0.270	0.273	

INSPECTION RESULT

ACID TANK WAS FOUND ACCEPTABLE WALL THICKNESS AS PER MANUFACTURE ACCEPTANCE CRITERIA.

PERSONNEL DETAILS REVIEW BY			REVIEW BY		
INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT NAME:	
QUALIFICATION:	ASM VICIMITOR	INSPECTION SUPERVISOR:	HANI ALI	DATE:	
STAMP & SIGNATURE:	Or Okineering The Control of the Con		SIGNATURE:		
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AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

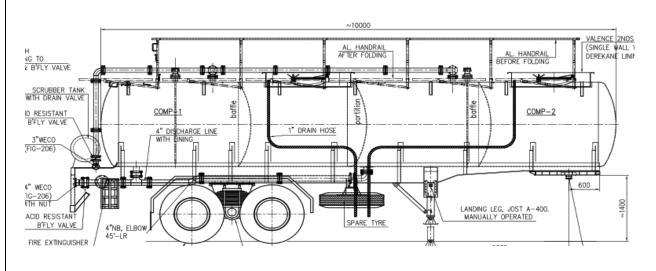
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATE OF QUALIFICATION HYDROSTATIC PRESSURE TEST WITNESS

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	HALLIBURTON	HALLIBURTON REPORT No.: QC-TRANSPORT— ACID-24-MAY-003						
LOCATION:	HPS HALLIBURTON YARD BASRA IRAQ	specification	WM-GL-HAL-PE-STIM-202					
INSPECTION DATE:	Thursday, May 9, 2024 NEXT INSPECTION DATE: Tuesday, May 8, 2029							
TYPE OF INSPECTION:	HYDROSTATIC PRESSURE TEST WITNESS							
DESCRIPTION:	2200 USG (2 COMP) ACID TANK							
ACID TANK SAP NO:	11873941							
MANUFACTURE :	AL SHIRAWI EQUIPMENT COMPANY							
HOLDING TIME:	05 MINUTES							
WORKING PRESSURE	10 PSI							
TEST PRESSURE	15 PSI							
PRESSURE TEST:	Hdyrostatic Pressure Test carried out on 1.5 time of the Working Pressure with holding time 05 minutes.							





FINAL RESULT

We hereby certify that the above equipment had been tested to the test pressure indicated above in a constant temperature and found satisfactory where no visible leak or pressure drop observed during the pressure test. Witness By QC Inspector.

PE	RSONNELDETAILS	REVIEW	ву		
INSPECTOR NAME:	M Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT NAME:	
QUALIFICATION:	gryal PATEP, in V. L.	INSPECTION SUPERVISOR:	HANI ALI	DATE:	
STAMP & SIGNATURE:	5 131			SIGNATURE:	
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