Al TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

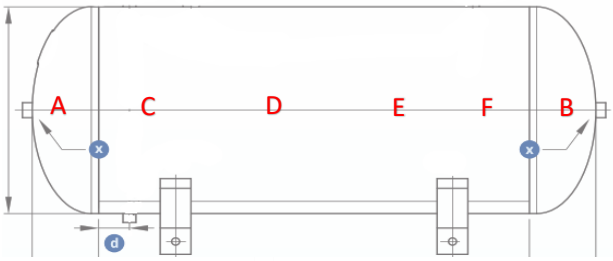
Basra, North Rumaila, Quality Control Yard - Iraq

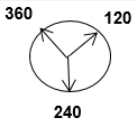
QUALITY CONTROL

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

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

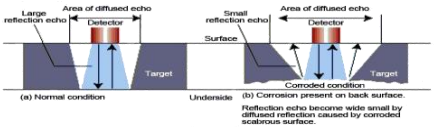
CLIENT:	HALLIBURTON	REPORT NO :	HALL.25-AUG-NDT-HPS-016
LOCATION:	HPS (Burjesia Halliburton Camp)	SPECIFICATION:	ASTM E709 -21 & ASTM E797-21
INSPECTION DATE:	Friday, August 8, 2025	INSPECTION DUE DATE:	Saturday, February 7, 2026
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS MEASUREMENT		
DESCRIPTION:	LUBRICATOR TANK	SERIAL NO:	14035154
UNIT NAME:	COIL TUBING UNIT CTU-5	UNIT SAP NO:	12534581





** ALL READINGS IN MM

**MINIMUM THICKNESS PROVIDED BY CUSTMER



THICKNESS POINTS AREA	WALL THICKNESS RESULT			MINIMUM THICKNESS	REMARKS
	120°	240°	360°		
(LEFT SIDE HEAD A)	2.92	2.83	2.74	2.2 MM	ACCEPTED
(RIGHT SIDE HEAD B)	2.96	2.88	2.87		
(BODY C)	3.79	3.61	3.67		
(BODY D)	3.73	3.54	3.58		
(BODY E)	3.62	3.77	3.64		
(BODY F)	3.66	3.51	3.71		

INSPECTION RESULT

MPI -The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable According to ASTM E709-21

U.T-The Above Item Was Found Acceptable As Per ASTM E797-21

INSPECTION EQUIPMENT DETAILS

AC YOKE S.N:	201504052	CAL DUE DATE	07-OCT-2025
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	09-OCT-2025
UT THICKNESS GAUGE:	5500391	CAL DUE DATE	07-OCT-2025
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	08-OCT-2025
ASTM Test Block:	1657	CAL DUE DATE	07-OCT-2025
WHITE LIGHT INTENSITY:	3570 lux		

TECHNICAL DETAILS

White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
	Magnaflux	230408	APRIL,2026
Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
	Magnaflux	230604	JUNE, 2026
Concentration Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		

PERSON DETAILS		REVIEW BY			
INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	[illegible]	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	