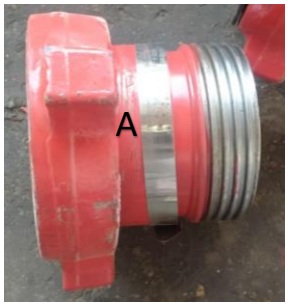
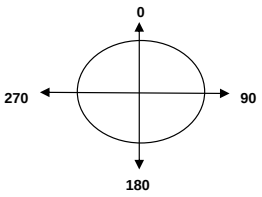
Al TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq

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

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

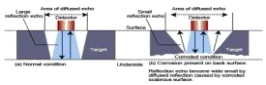
CLIENT:	HALLIBURTON	REPORT NO.:	QC-25-05-TSS-NDT-022
LOCATION:	TSS YARD	JOB NO:	06052025
WORK ORDER #	*****	STANDARD:	ASTM E709 -21 & ASTM E797-21
DATE OF INSPECTION:	Tuesday, May 6, 2025	NEXT INSPECTION DATE:	Wednesday, November 5, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		
DESCRIPTION:	X-OVER: 4" 206 WING X 3" 1502 THREAD	SERIAL NO:	JH20241230-06/001





ONLINE TRACEBILITY

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



ANGLE	WALL THICKNESS RESULT	MINIMUM THICKNESS IN INCHES
	A	
0°	1.283	0.218 INCH
90°	1.276	
180°	1.269	
270°	1.272	

INSPECTION RESULT

VT & MPI	Accepted	According to ASTM E709-21
UT	Accepted	According to ASTM E 797-21

Inspection Evaluation

MPI -The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable According to ASTM E709-21
Note:MPI Wet Fluorescent inspection Thread With UltraViolet Light
Magnetic Particle Inspection With A/C Hand Yoke Avaliable Areas

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

INSPECTION EQUIPMENT DETAILS

AC YOKE S.N:	201504048	CAL DUE DATE	7-Oct-25	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25		Magnaflux	230408	APRIL,2026
UT THICKNESS GAUGE:	5500391	CAL DUE DATE	7-Oct-25	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	8-Oct-25		Magnaflux	230604	JUNE, 2026
ASTM Test Block:	1657	CAL DUE DATE	7-Oct-25	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
DC COIL:	22650	CAL DUE DATE	8-Oct-25		Magnaflux	230503	MAY.2026
UV BLACK LIGHT:	87521	CAL DUE DATE	9-Oct-25	Concentration of 14HF:		0.1 to 0.4 ml/100 ml	
WHITE LIGHT INTENSITY:	3620 lux	UV BLACK LIGHT INTENSITY:	3160 µw/cm²	Concentration of 7HF:		1.2 to2.4 ml/100 ml	

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

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