

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

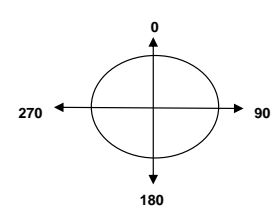
Basra, North Rumaila, Quality Control Yard - Iraq



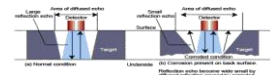
**CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>HALLIBURTON</b>	REPORT NO.:	QC-25-05-TSS-NDT-012
LOCATION:	<b>TSS YARD</b>	JOB NO.:	04052025
WORK ORDER #	*****	STANDARD:	ASTM E709 -21 & ASTM E797-21
DATE OF INSPECTION:	Sunday, May 4, 2025	NEXT INSPECTION DATE:	<b>Monday, November 3, 2025</b>
TYPE OF INSPECTION:	<b>VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING</b>		
DESCRIPTION:	<b>X-OVER: 3" 206 THREAD X 2" 206 THREAD</b>	SERIAL NO.:	<b>HAH 18401-1</b>



\* ALL READINGS IN INCH  
\*\*MINIMUM THICKNESS PROVIDED BY CUSTOMER



ANGLE	WALL THICKNESS RESULT		MINIMUM THICKNESS IN INCHES
	A		
0°	0.602		0.116 INCH
90°	0.613		
180°	0.593		
270°	0.607		

**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 Discontinuities 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 Welds & Available Areas

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

**INSPECTION EQUIPMENT DETAILS**

**TECHNICAL 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:	3670 lux	UV BLACK LIGHT INTENSITY:	3190 μw/cm <sup>2</sup>	Concentration of 7HF:		1.2 to 2.4 ml/100 ml	

**PERSON DETAILS**

**REVIEW BY**

INSPECTOR NAME:	M. Shahzad M. Al-Jabbar	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ASNT 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

