

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 & PRESSURE TEST
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-24-01-TSS-004-NDT-012
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E797 & ASME SECTION V ARTICLE 5,10 & 27 & ASME B31.1
WORK ORDER #	326104072	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-76
DATE OF INSP:	13-Jan-2024	INSP. DUE DATE:	12-Jan-2025
TYPE OF INSPECTION:	VISUAL INSPECTION, PRESSURE TEST AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING		

DESCRIPTION:	SPOOL 3 1/16" 10K	CHOKE MANIFOLD #	12405205
MANUFACTURER:	WOM	SERIAL NO:	M63981-1

INSPECTION DETAILS

Max. Working Pressure:	10,000 PSI	Holding Time:	15 Min
Low pressure:	300 PSI	Holding Time:	05 Min
Pump S.N.:	13119220 Cal DUE. AUG.2024	Pressure Gauge NO.:	468066 Cal DUE. AUG.2024

(a) Normal condition
Large reflection echo, Area of diffused echo, Detector, Surface, Target

(b) Corrosion present on back surface.
Small reflection echo, Area of diffused echo, Detector, Corroded condition, Target
Reflection echo become wide small by diffused reflection caused by corroded scabrous surface.

A B C

0
270 ← 90
180

A: 12'O CLOCK / FORWARD
B: 3'O CLOCK / CENTER
C: 6'O CLOCK / AFT

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

ONLINE TRACEABILITY

POINTS	THICKNESS AT POSITION			MINIMUM THICKNESS
	A	B	C	
0°	1.371	1.368	1.366	1.190
90°	1.367	1.372	1.287	
180°	1.384	1.318	1.376	
270°	1.345	1.312	1.341	

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASTM E709(70.94158).
UT	Accepted	According to Halliburton Procedure (H2S STANDERD NACE MQ-01-76) ASME SECTION V ARTICLE 5 (ASTM E 797)
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Halliburton Acceptance Criteria

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To The Halliburton Specification ASTM E709 (70.94158)
 U.T-The Above Item Was Found Acceptable As Per Halliburton Procedure H2S STANDARD NACE MQ-01-76 ASME SECTION V ARTICLE 5 (ASTM E 797)
 Pressure Test-The Above Item was Pressure Tested up to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 10.000 psi Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS

TECHNICAL DETAILS

AC YOKE S.N:	201504048	CAL DUE DATE	14-Feb-24	White Contrast WCP 2	MANUFACTUR E	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Feb-24	Black Magnetic Ink 7HF	MANUFAC TURE	BATCH NO	EXPIRE DATE
UT THICKNESS GAUGE:	3997	CAL DUE DATE	16-Feb-24	Fluorescent Magnetic Ink 7HF	Magnaflux	220605	JULY.2025
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	16-Feb-24				
ASTM Test Block:	1657	CAL DUE DATE	14-Feb-24				
WHITE LIGHT INTENSITY:	3670 lux						1.2 to 2.4 ml/100 ml

PERSON DETAILS

INSPECTOR NAME:	M.Shahzad Ali	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	ISO 9001, ISO 14001, UT, VT,	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN	
SIGNATURE & STAMP:				DATE:	

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