

**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 & WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	HAL.23-05-TSS-033
LOCATION:	TSS (Burjesia Halliburton Camp)	STANDARD:	ASTM E709, ASTM E797 / ASME SECTION V ARTICLE 5, 10 & 27
DATE:	23-May-23	SPECIFICATION:	Halliburton Acceptance Criteria H2S STANDARD NACE MQ-01-75
W.No.:	-	INSP. DUE DATE:	22-May-24
TYPE OF INSPECTION:	VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING AND WITNESSING PRESSURE TEST		

DESCRIPTION:	3" 600 FR FLANGE X 3" 206 WING	MFG SERIAL NO:	HAH 20067-5-5
Pump S.N.:	13119220 Cal DUE. JULY.2023	Pressure Gauge NO:	468066 Cal DUE. JULY.2023

INSPECTION DETAILS

(a) Normal condition
Large reflection echo

(b) Corrosion present on back surface.
Small reflection echo

Reflection echo become wide small by diffused reflection caused by corroded seamless surface.

ONLINE TRACEABILITY

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

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

SECTION NO.	Thickness at Position				Minimum Thickness (INCH)
	0°	90°	180°	270°	
A	0.353	0.375	0.381	0.320	0.170 INCH

INSPECTION RESULT

VT & MPI	Accepted	* ACCORDING TO ASM E709(70.94158).
UT	Accepted	** According to Halliburton Procedure H2S STANDARD NACE MQ-01-75 (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-01-75 (ASTM E 797)
 Pressure Test-The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 1440 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	18-Aug-23	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	20-Aug-23		Magnaflux	220602	JUN.2025
UT THICKNESS GAUGE:	5202746	CAL DUE DATE	18-Aug-23	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	20-Aug-23		Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	18-Aug-23	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3415 lux						
INSPECTOR NAME:	M. Shukrad Ab...	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:			
QUALIFICATION:	ASNT CP-105, UT, MPI, VT, PT, ET, V/L	INSPECTION SUPERVISOR:	HANI ALI	HBASIGN			
SIGNATURE & STAMP:				DATE:			

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