Al TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

QUALITY CONTROL

CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING & WITNESS PRESSURE TEST

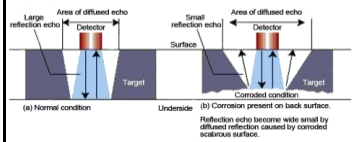
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:	**HALLIBURTON**	**REPORT No.:**	HAL.23-05-TSS-031
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 BALON VALVE**	**MFG SERIAL NO:**	**5KML, 5FOX**
Pump S.N.:	**13119220 Cal DUE. JULY.2023**	**Pressure Gauge NO:**	**468066 Cal DUE. JULY.2023**

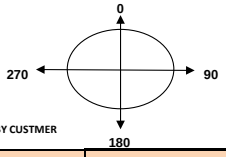
INSPECTION DETAILS

ONLINE TRACEBILITY



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	0.381	0.374	0.398	0.354	0.180 INCH
B	0.387	0.361	0.379	0.363	

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 Inlet, Outlet & Body 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

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.Shahzad Ahmed	**SENIOR INSPECTOR:**	**NAVEED HUSSAIN**		**CLIENT:**		
QUALIFICATION:	ASNT LEVEL II	**INSPECTION SUPERVISOR:**	**HANI ALI**		**HB&SIGN**		
SIGNATURE & STAMP:					**DATE:**		