

MAJOR INSPECTION CERIFICATE

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	HALLIBURTON	REPORT No.:	QC-25-05-TSS-NDT MAJ-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	SPECIFICATION:	ASTM E709 & ASTM E797 & ASME B31.1 Manufacturing Date Book
WORK ORDER #	326657907		
DATE:	Thursday, May 30, 2024	INSP. DUE DATE:	ANNUAL INSPECTION
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING & WITNESS PRESSURE TEST		
DESCRIPTION:	MULTI PHASE FLOW METER 5K (MPFM)	SAP NO.:	12160867
INSPECTION DETAILS			
Max. Working Pressure:	5000 PSI	Holding Time:	18 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:12'O CLOCK / FORWARD
 B:3'O CLOCK / CENTER
 C:6'O CLOCK / AFT

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

ONLINE TRACEABILITY

Large reflection ratio
 Small reflection ratio
 Large penetration
 Small penetration

Ultrasonic: 50% Conversion provided on back surface
 Reflection ratio because ratio sound by different reflection caused by material substrate surface.

ANGLE	THICKNESS AT POSITION				MINI.THICKNESS	FINAL REMARKS
	0°	90°	180°	270°		
A	0.680	0.690	0.675	0.678	13.35 MM 0.525 INCH	SATISFACTORY
B	0.687	0.678	0.680	0.685		
C	0.690	0.689	0.687	0.682		
D	0.685	0.687	0.645	0.645		
E	0.658	0.678	0.685	0.652		
F	0.675	0.689	0.690	0.670		
G	0.645	0.678	0.651	0.650		
H	0.651	0.650	0.640	0.675		
I	0.645	0.652	0.664	0.643		

INSPECTION RESULT		
VT & MPI	Accepted	* ACCORDING TO ASTM E709
UT	Accepted	According to ASTM E 797 & Manufacturing Date Book
BODY	Accepted	*** These Are The Actual Readings Need To Follow As Per Manufacturing Date Book

Inspection Evaluation

(MPI) The Above Item Has No Significant Discontinuous At The Time Of Inspection And Found Acceptable Accordance To ASTM E709

U.T- The Above Item Was Found Acceptable As Per ASTM E 797 & Manufacturing Date Book

Pressure Test- The Above Item was Pressure Tested to 300 PSI A low Pressure Hold for 5 min And Maximum Working pressure 5000 psi Hold 18 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

INSPECTION EQUIPMENT DETAILS				TECHNICAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	14-Oct-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	16-Oct-24		Magnaflux	220602	JUN,2025
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Oct-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	15-Oct-24		Magnaflux	220605	JULY,2025
ASTM Test Block:	1657	CAL DUE DATE	14-Oct-24	Fluorescent Magnetic Ink 7HF	1.2 to 2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3620 lux						

PERSON DETAILS			
INSPECTOR NAME:	Uzma shahid	SENIOR INSPECTOR:	M.Shahzad
QUALIFICATION:	AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED	INSPECTION SUPERVISOR:	HANI ALI
SIGNATURE & STAMP:			DATE:

Original - Client Files Copy - Area Office QC/FN/PT/077 Rev.00 DATED 07.NOV. 2021

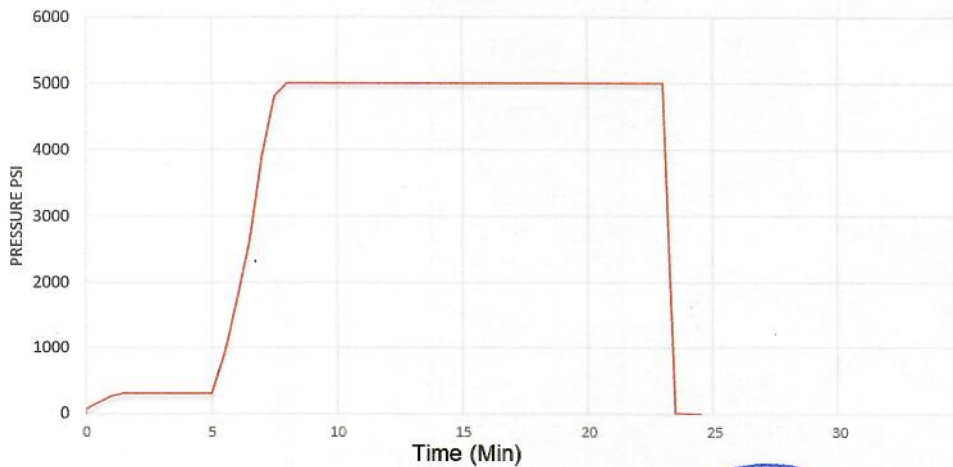


Data Collection Report

Gauge Information	
Serial Number	468066
Model	XP2I
Message Store	TSS test area
Units	PSI
SCALE	15000 PSI

Run Info	
Start Time	9:00 AM
Stop Time	9:23 AM
Test Date	31-May-24
EQ NUMBER	12160867
LAST CALIB	2.Aug.2023

READING



TESTED BY : Feras Abbas
APPROVED BY: Hassan Kamel
COMMENTS: Body Test

