

# AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq



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

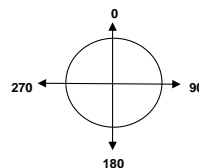
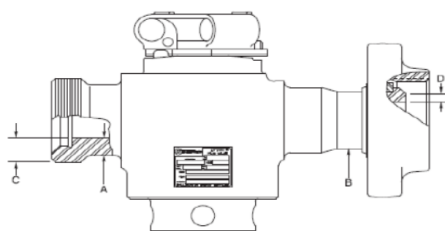
THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	NAHJ AL-BASRA COMPANY	REPORT No.:	QC-24-09-NBC-NDT-001
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	STANDARD:	ASTM E709 & ASTM E797, ASME B31.1
INSPECTION DATE:	Thursday, September 12, 2024	INSPECTION. DUE DATE:	Thursday, September 11, 2025
TYPE OF INSPECTION:	VISUAL INSPECTION AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING & WITNESS PRESSURE TEST		

DESCRIPTION:	1.75" LO-TORC PLUG VALVE 15.000PSI 2"1502 WING X THREAD	SERIAL NO:	421707156
MANUFACTURER:	SJ PETROLEUM MANCHINERY. CO	MATERIAL CLASS:	AA
TEMPERATURE RATING:	29° TO 121°C	RATED WORK PRESSURE	105 Mpa

### INSPECTION DETAILS

Max. Working Pressure:	15,000 PSI	Holding Time:	15 Min
Low pressure:	300 PSI	Holding Time:	05 Min
Pump NO:	EQ NO:13119220 Cal DUE Date: 19.AUG.2025	Digital Pressure Gauge NO.:	218230280019 Cal DUE Date: 06.MAR.2025

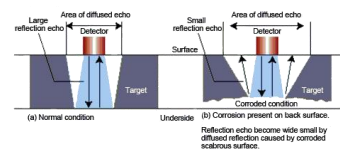


A:12'O CLOCK / FORWARD  
B:3'O CLOCK / CENTER  
C:6'O CLOCK / AFT

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



ONLINE TRACEABILITY



POINTS	THICKNESS AT POSITION				MINIMUM THICKNESS INCH
	0°	90°	180°	270°	
A	0.866	0.823	0.840	0.837	0.590 INCH
B	0.583	0.572	0.569	0.577	0.420 INCH
C	1.112	1.105	1.103	1.110	0.980 INCH
D	0.360	0.354	0.352	0.361	0.250 INCH

### INSPECTION RESULT

VT & MPI	Accepted	According to ASTM E709
UT	Accepted	** According to ASTM E 797

### Inspection Evaluation

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

Note:MPI Wet Fluorescent inspection Thread With UltraViolet Light

U.T-The Above Item Was Found Acceptable As Per 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 15.000 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:	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	15-Oct-24	Fluorescent Magnetic Ink 14HF	MANUFACTURE	BATCH NO	EXPIRE DATE
DC COIL:	22650	CAL DUE DATE	15-Oct-24		Magnaflux	220306	March,2025
UV BLACK LIGHT:	1898977	CAL DUE DATE	14-Oct-24	Wet FLUORESCENT Particle Concentration 14 HF			0.1 to 0.4 ml/100 ml
WHITE LIGHT INTENSITY:	3620 lux	UV BLACK LIGHT INTENSITY:	2980 $\mu\text{w}/\text{cm}^2$	Black Magnetic Ink Concentration 7 HF			1.2 to 2.4 ml/100 ml

### PERSON DETAILS

INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:	
QUALIFICATION:	AI TAKAMUL COMPANY	INSPECTION SUPERVISOR:	HANI ALI	HRASIGN	
SIGNATURE & STAMP:				DATE:	

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

