

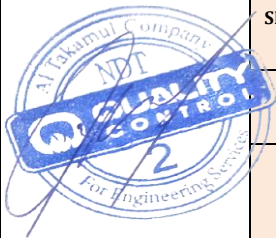


**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-AUG-24-TSS-NDT-007	
Location:	TSS WORKSHOP & INSPECTION TEST AREA	Job Number:	QC-AUG-24-TSS-NDT-001	
Date:	Monday, August 12, 2024	Next Inspection Date:	Tuesday, February 11, 2025	
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)	
	UNIT DESCRIPTION:	X-OVER: FLANGE 4" 150 CL X 4" 206 WING		
	S/NO:	TSS-138		
	INSPECTION RESULT :			
	VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION		
	MAGNETIC PARTICLE INSPECTION	Thread & Welding Critical areas inspected and found free from cracks and other defects		
	FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED		
COMMENT: (MPI Wet Fluorescent inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast				

EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3041 μw/cm ²	INSPECTOR NAME:	USMAN SHABIBIR	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.NO:	201504048	S.NO:	22650	S.NO:	1898977		QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI
Cal Due Date:	14.OCT.2024	Cal Due Date:	15.OCT.2024	Cal Due Date:	14.OCT.2024			CLIENT:	
FLUORESCENT 14HF	Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025				
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	EXPIRE DATE:	JUN,2025				
TECHNICAL DETAILS					Black Magnetic Ink Manufacture:7HF				
Digital Lux Meter WHITE LIGHT INTENSITY:				Batch No:220605					
3620 Lux/S.NO:2722003	Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml						
Cal Due Date:16.OCT.2024	Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE:	Jul-25			

Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021





Address: Noth Rumaila, Al Takamul Yard
Contact: +9647810009138

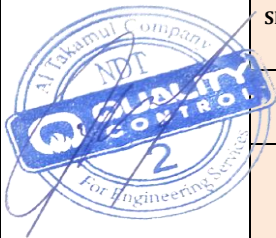
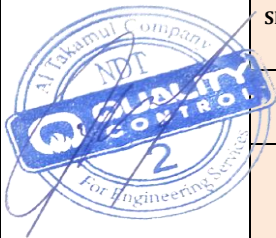
Tel: +9647810009138 / +9647834964657
Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com

**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-AUG-24-TSS-NDT-008	
Location:	TSS WORKSHOP & INSPECTION TEST AREA	Job Number:	QC-AUG-24-TSS-NDT-001	
Date:	Monday, August 12, 2024	Next Inspection Date:	Tuesday, February 11, 2025	
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)	
	UNIT DESCRIPTION:	4" BALON VALVE		
	S/NO:	2UAQ		
	INSPECTION RESULT :			
	VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION		
	MAGNETIC PARTICLE INSPECTION	Available critical areas inspected and found free from cracks and other defects		
	FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED		
COMMENT: Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast				



EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
Equipment:	Astm Test Block	Equipment:	Digital Lux Meter WHITE LIGHT INTENSITY: 3160 lux	Equipment:	AC/DC Yoke PERMANET HAND MAGNATIC	INSPECTOR NAME: USMAN SHABIR		SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	PY-09			QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:
Cal Due Date:	14.OCT.2024	Cal Due Date:	16.OCT.2024	Cal Due Date:	14.OCT.2024	STAMP & SIGNATURE:		CLIENT:	
Black Magnetic Ink Concentration 7 HF	Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025				
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	EXPIRE DATE:	JUN,2025				
TECHNICAL DETAILS	TECH								
	Whie Contrast Paint Manufacture:		0.1 to 0.4 ml/100 ml						
	Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml						

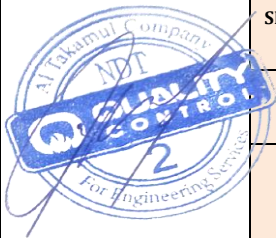
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021

**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**
Basra, North Rumaila, Quality Control Yard - Iraq

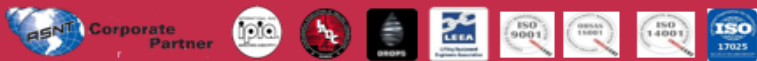


CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (TSS)	Report No:	QC-AUG-24-TSS-NDT-009	
Location:	TSS WORKSHOP & INSPECTION TEST AREA	Job Number:	QC-AUG-24-TSS-NDT-001	
Date:	Monday, August 12, 2024	Next Inspection Date:	Tuesday, February 11, 2025	
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)	
	UNIT DESCRIPTION:	X-OVER: FLANGE 4" 150CL X 4" 206 THREAD		
	S/NO:	WO17337-06		
	INSPECTION RESULT :			
	VISUAL , THOROUGH EXAMINATION	VISUAL & MAGNETIC PARTICLE INSPECTION (M.P.I.) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION		
	MAGNETIC PARTICLE INSPECTION	Thread & Welding Critical areas inspected and found free from cracks and other defects		
	FINAL RESULTS	THE ABOVE INSPECTED AREAS WAS ACCEPTED		
COMMENT: (MPI Wet Fluorescent inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast				
				

EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY		
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3041 $\mu\text{w}/\text{cm}^2$	INSPECTOR NAME:	USMAN SHABIBIR	SENIOR INSPECTOR:	NAVEED HUSSAIN	
S.NO:	201504048	S.NO:	22650	S.NO:	1898977		QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:	HANI ALI	
Cal Due Date:	14.OCT.2024	Cal Due Date:	15.OCT.2024	Cal Due Date:	14.OCT.2024			CLIENT:		
FLUORESCENT 14HF	Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025					
White Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	EXPIRE DATE:	JUN,2025	STAMP & SIGNATURE:				
Technical Details					Black Magnetic Ink Manufacture:					7HF
Digital Lux Meter WHITE LIGHT INTENSITY:	Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:220605					
3620 Lux/S.NO:2722003	Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE: Jul-25					
Cal Due Date:16.OCT.2024										

Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021



Address: North Rumaila, Al Takamul Yard
Contact: +9647810009138

Tel: +9647810009138 / +9647834964657
Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com