Basra, North Rumaila, Quality Control Yard - Iraq

# G ONTROL

#### CERTIFICATE OF QUALIFICATION VISUAL AND WITNESS PRESSURE TEST

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS

CLIENT:		THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIEREMENTS         HALLIBURTON       REPORT No.:       QC-24-05-TSS-HALL-NDT-001										
LOCATION:	TSS WORK	TSS WORKSHOP & INSPECTION TEST AREA JOB NO : QC-24-05-TSS-NDT-HALL-007										
WORK ORDER	t#	326589883	SPECIFICATION:	ASME SE	CTION VIII DIV 1 Latest Edition , ASME B31.3 H2S STANDARD NACE MR-01-75							
DATE OF INSPECT	TION :	Tuesday, May 14, 2024	INSP. DUE DATE:		Tuesday, May 13, 2025							
TYPE OF INSPECT	ION:	VISUAL INSPE	CTION AND WITNESS	S PRESSURE TEST								
DESCRIPTION	ESCRIPTION: SEPARATOR VESSEL 1440PSI SAP EQ.NO 114											
BODY PRESSURE I	EST	1440 psi	HOLDING TIM	IE:	23 MINUTES							
VALVE PRESSURE	rest	1440 Psi	HOLDING TIM	Œ:	23 MINUTES							
BODY PRESSURE TEST W	/ITH PRV :	1296 psi	HOLDING TIM	IE:	23 MINUTES							
Pump S.N.::		13119220	CAL DUE DAT	'Е:	AUG.2024							
Pressure Gauge N	О.:	468066	CAL DUE DAT	E:	AUG.2024							
					ONLINE TRACEBILITY							
				0 PSI Maxim	um Working pressure, Hold For 17 min no Leak							
PRESSURE TEST 2-	The Above All Valve Was Tes	essure Was Stable According To Chart Re ted Up to 100 PSI A low Pressure Hold for we Was Stable According To Chart Record	or 5 min And 1440 PSI	Maximum W	orking pressure, Hold For 17 min no Leak was							
PRESSIER TEST 3-	The Above Separaror Body W		v Pressure Hold for 5 mi	n And 1296 I	PSI Maximum Working pressure, Hold For 17							
		PERSON DETA	ILS									
INSPECTOR NAME:	M.Shahizad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSA	IN	CLIENT:							
QUALIFICATION:	ASN LATON VI	INSPECTION SUPERVISOR:	HANI ALI		HB&SIGN							
SIGNATURE & STAMP:	<u>R</u> <u>n</u>				DATE:							
Original - Client Files Co	py - Area Office QC/EN/PT/0	77 Rev.00 DATED 07.NOV. 2021										



Basra, North Rumaila, Quality Control Yard - Iraq



CLIENT:	HALLIB	URTON	REPORT No.:		(	QC-24-05-TSS-HA	LL-NDT-002	
LOCATION:	TSS WORKSHOP & IN	SPECTION TEST AREA	JOB NO :		Q	C-24-05-TSS-ND	T-HALL-007	
WORK ORDER #	3265	89883	SPECIFICATION	N:		AE SECTION VIII D 12S STANDARD NA Manufacturing I	CE MR-01-75	
INSPECTION DATE:	Tuesday, M	Iay 14, 2024	INSP. DUE DAT	E:	Tuesday, May 13, 2025			
TYPE OF INSPECTION:	-	-	RTICLE INSPECTION AN	ID III TRASI	ONIC THICKNESS GAUGING			
DESCRIPTION: MANUFACTURER:		VESSEL 1440PSI T SERVICES	SAP EQ,NO: MANUFACTURER SERIA	AL NO:		1148404 FFZ-25		
LETT SIDE & RIGHT SIDE		мм	LETT SIDE & RIGHT	SIDE		3 MM		
MINIMUM THICKNESS SHELL			CORROSION ALLOW. SHELL	ANCE				
NOMINAL THICKNESS	50	MM	CORROSION ALLOW.	ANCE		3 MM		
Area of different entry Received and different entry Description of different entry Description of different entry Topological and				В С	240 312'O CLOCK / FOI 3'O CLOCK / CENT 5'O CLOCK / AFT ALL READINGS IN I *MINIMUM THICK	RWARD	LINE TRACEBILITY	
difused reflection scabrous sufface.	caused by comoded	THICKNESS AT POSITION				CORROSION		
ANGLE				MINIMUM	THICKNESS		FINAL REMARKS	
	120° 50.87	240°	360°	MINIMUM	I THICKNESS	ALLOWANCE	FINAL REMARKS	
ANGLE LEFT SIDE A1 LEFT SIDE A2	50.87 51.42		<b>360°</b> 51.21 51.84	MINIMUM	I THICKNESS		FINAL REMARKS	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3	50.87 51.42 51.65	240° 51.13 50.12 51.79	51.21 51.84 51.14	-	I THICKNESS		FINAL REMARKS	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1	50.87 51.42 51.65 50.87	240° 51.13 50.12 51.79 51.63	51.21 51.84 51.14 50.43	-			FINAL REMARKS	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2	50.87 51.42 51.65 50.87 51.43	240° 51.13 50.12 51.79 51.63 51.44	51.21 51.84 51.14 50.43 50.11	-			FINAL REMARKS	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3	50.87 51.42 51.65 50.87	240° 51.13 50.12 51.79 51.63	51.21 51.84 51.14 50.43	- 44	MM		FINAL REMARKS	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2	50.87 51.42 51.65 50.87 51.43 51.79 120*	240° 51.13 50.12 51.79 51.63 51.44 51.78	51.21 51.84 51.14 50.43 50.11 51.74 360*	- 44				
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C	50.87 51.42 51.65 50.87 51.43 51.79 120° 50.19	240° 51.13 50.12 51.79 51.63 51.64 51.78 THICKNESS AT POSITION 240° 49.14	51.21 51.84 51.14 50.43 50.11 51.74 360° 49.09	- 44	MM	ALLOWANCE	SATISFACTOR	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D	50.87           51.42           51.65           50.87           51.43           51.79           120*           50.19           49.17	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.14	51.21 51.84 51.14 50.43 50.11 51.74 360° 49.09 49.25	- 44	MM	ALLOWANCE		
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL E	50.87           51.42           51.65           50.87           51.43           51.79           120°           50.19           49.17           49.95	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77	51.21 51.84 51.14 50.43 50.11 51.74 360° 49.09 49.25 49.66	44	MM THICKNESS	ALLOWANCE		
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL E SHELL F	50.87           51.42           51.65           50.87           51.43           51.79           120°           49.17           49.95           50.19	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.14 49.18 50.77 50.20	51.21 51.84 51.14 50.43 50.11 51.74 360 <sup>•</sup> 49.09 49.25 49.66 50.28	44	MM	ALLOWANCE		
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL F SHELL G	50.87           51.42           51.65           50.87           51.43           51.79           120*           49.17           49.95           50.19           49.18	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.18	44	MM THICKNESS	ALLOWANCE		
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL C SHELL F SHELL F SHELL G SHELL H	50.87           51.42           51.65           50.87           51.43           51.79           120*           50.19           49.17           49.95           50.19           49.18           49.31	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30	51.21           51.84           51.14           50.43           50.11           51.74           360*           49.09           49.25           49.66           50.28           49.18           49.21	44	MM THICKNESS	ALLOWANCE		
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL F SHELL G	50.87           51.42           51.65           50.87           51.43           51.79           120*           49.17           49.95           50.19           49.18	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08	51.21           51.84           51.14           50.43           50.11           51.74           360*           49.09           49.25           49.66           50.28           49.18           49.21	44	MM THICKNESS	ALLOWANCE		
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL C SHELL F SHELL G SHELL H SHELL I	50.87           51.42           51.65           50.87           51.43           51.79           120*           50.19           49.17           49.95           50.19           49.18           49.31           50.09	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08	51.21           51.84           51.14           50.43           50.11           51.74           360*           49.09           49.25           49.66           50.28           49.18           49.21           49.99	44 NOMINAL 50	MM THICKNESS MM	3 MM		
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL C SHELL E SHELL F SHELL G SHELL H SHELL I VT & MPI	50.87           51.42           51.65           50.87           51.43           51.79           120'           50.19           49.95           50.19           49.31           50.09	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.66 50.28 49.18 49.21 49.99 <b>TON RESULT</b> According to ASME SI	NOMINAL 50	MM THICKNESS MM	ALLOWANCE 3 MM		
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL C SHELL F SHELL G SHELL H SHELL I	50.87           51.42           51.65           50.87           51.43           51.79           120*           50.19           49.17           49.95           50.19           49.18           49.31           50.09	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08	51.21           51.84           51.14           50.43           50.11           51.74           360*           49.09           49.25           49.66           50.28           49.18           49.21           49.99	NOMINAL 50	MM THICKNESS MM	ALLOWANCE 3 MM		
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL C SHELL E SHELL F SHELL G SHELL H SHELL I VT & MPI	50.87           51.42           51.65           50.87           51.43           51.79           120'           50.19           49.95           50.19           49.31           50.09	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.66 50.28 49.18 49.21 49.99 <b>TON RESULT</b> According to ASME SI	A44 NOMINAL 50 ECTION VIII I DIV 1 Latest Edit	MM THICKNESS MM DIV 1 Latest Ed ion & Manufactur	ALLOWANCE 3 MM dition	SATISFACTOR	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL F SHELL F SHELL G SHELL H SHELL I VT & MPI UT	50.87           51.42           51.65           50.87           51.43           51.79           120°           50.19           49.17           49.95           50.19           49.31           50.09           Accepted           Accepted	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.66 50.28 49.18 49.21 49.99 <b>TON RESULT</b> According to ASME SECTION VIII	A44 NOMINAL 50 ECTION VIII I DIV 1 Latest Edit	MM THICKNESS MM DIV 1 Latest Ed ion & Manufactur	ALLOWANCE 3 MM dition	SATISFACTOR	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL C SHELL C SHELL F SHELL F SHELL G SHELL H SHELL I VT & MPI UT BODY	50.87           51.42           51.65           50.87           51.43           51.79           120*           50.19           49.17           49.95           50.19           49.18           49.31           50.09           Accepted           Accepted           Accepted	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT *** These Inspectio	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.18 49.21 49.99 <b>TON RESULT</b> According to ASME SI According to ASME SI According to ASME SI	ECTION VIII I DIV 1 Latest Edit eed To Follow	MM THICKNESS MM DIV 1 Latest Ed ion & Manufactur As Per Manuf	ALLOWANCE 3 MM dition	SATISFACTOR	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL F SHELL F SHELL I <b>VT &amp; MPI</b> UT BODY	50.87 51.42 51.65 50.87 51.43 51.79 <b>120'</b> 50.19 49.17 49.95 50.19 49.31 50.09 Accepted Accepted Accepted Accepted	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT *** Thes Inspection And Found Acceptable	51.21 51.84 51.14 50.43 50.11 51.74 360° 49.09 49.25 49.66 50.28 49.66 50.28 49.18 49.21 49.29 <b>TON RESULT</b> According to ASME SECTION VIII se Are The Actual Readings New on Evaluation Accordance To ASME SECTION	ECTION VIII I DIV 1 Latest Edit eed To Follow	MM THICKNESS MM DIV 1 Latest Ed ion & Manufactur As Per Manuf	ALLOWANCE 3 MM dition	SATISFACTOR	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL F SHELL F SHELL I <b>VT &amp; MPI</b> UT BODY	50.87 51.42 51.65 50.87 51.43 51.79 <b>120'</b> 50.19 49.17 49.95 50.19 49.31 50.09 Accepted Accepted Accepted Accepted	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT *** Thes Inspection f Inspection And Found Acceptable ION VIII DIV 1 Latest Edition 8	51.21 51.84 51.14 50.43 50.11 51.74 360° 49.09 49.25 49.66 50.28 49.66 50.28 49.18 49.21 49.29 <b>TON RESULT</b> According to ASME SECTION VIII se Are The Actual Readings New on Evaluation Accordance To ASME SECTION	ECTION VIII I DIV 1 Latest Edit eed To Follow	MM THICKNESS MM DIV 1 Latest Ed ion & Manufactur As Per Manuf st Edition	ALLOWANCE 3 MM dition	SATISFACTOF	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL F SHELL H SHELL I VT & MPI UT BODY P1) The Above Item Has No Signific: T-The Above Item Was Found A	50.87           51.42           51.65           50.87           51.43           51.79           120°           50.19           49.17           49.95           50.19           49.18           49.31           50.09           Accepted           Accepted           Accepted           Accepted           Scepted           Scepted           Accepted           Accepted           Scepted           Accepted           Accepted           Scepted	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT 6 Inspection And Found Acceptable ION VIII DIV 1 Latest Edition 8 2000 VIII DIV 1	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.25 49.66 50.28 49.21 49.99 <b>TON RESULT</b> According to ASME SECTION VIII se Are The Actual Readings New <b>Source Section</b> According to ASME SECTION VIII se Are The Actual Readings New <b>Source Section</b> According to ASME SECTION VIII Secondance To ASME SECTION VIII Secondance To ASME SECTION VIII Secondance To ASME SECTION VIII	ECTION VIII I DIV 1 Latest Edit eed To Follow	MM THICKNESS MM DIV 1 Latest Edition	ALLOWANCE 3 MM dition ing Date Book facturing Date Book	SATISFACTOF	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL F SHELL F SHELL I <b>VT &amp; MPI</b> UT BODY	50.87           51.42           51.65           50.87           51.43           51.79           120°           50.19           49.17           49.95           50.19           49.18           49.31           50.09           Accepted           Accepted           Accepted           Accepted           Accepted           Sontinuous At The Time O           ccceptable As Per ASME SECT           INSPECTION EQUID           201504052	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT *** Thes Inspection And Found Acceptable ON VIII DIV 1 Latest Edition 8 PMENT DETAILS CAL DUE DATE	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.18 49.21 49.21 49.99 <b>TON RESULT</b> According to ASME SECTION VIII se Are The Actual Readings No <b>on Evaluation</b> Accordance To ASME SECTION VIII se Are The Actual Readings No <b>on Evaluation</b> Accordance To ASME SECTION VIII	ECTION VIII 1 DIV 1 Latest Edit eeed To Follow VIII DIV 1 Latest	MM THICKNESS MM DIV 1 Latest Ec ion & Manufactur As Per Manufa st Edition TEC MANUFACTURE	ALLOWANCE 3 MM dition ing Date Book facturing Date Book facturing Date Book	SATISFACTOR k k	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B3 ANGLE SHELL C SHELL C SHELL D SHELL F SHELL F SHELL F SHELL H SHELL H SHELL H SHELL I T H CT BODY P1) The Above Item Has No Significa T-The Above Item Was Found A AC YOKE S.N: Digital Lux Meter WHITE LIGHT	50.87           51.42           51.65           50.87           51.43           51.79           120°           50.19           49.17           49.95           50.19           49.18           49.31           50.09           Accepted           Accepted           Accepted           Accepted           Accepted           Discontinuous At The Time O           ccceptable As Per ASME SECT           INSPECTION EQUID           201504052           2722003	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECI 61 SPECION 61 CON VIII DIV 1 Latest Edition 8 CAL DUE DATE CAL DUE DATE CAL DUE DATE CAL DUE DATE	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.18 49.21 49.99 <b>TON RESULT</b> According to ASME SIGNOV VIII See Are The Actual Readings Network SIGNOV SIGNOV SIGNOV SI	ECTION VIII 1 DIV 1 Latest Edit eed To Follow VIII DIV 1 Latest White Contrast WCP- 2	MM THICKNESS MM DIV 1 Latest Edition St Edition TEC MANUTACTURE Magnaflux	ALLOWANCE ALLOWA	k ILS EXPIRE DATE JUN.2025	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL G SHELL H SHELL I UT BODY PI) The Above Item Has No Signific T-The Above Item Was Found A C YOKE S.N: Digital Lax Meter WHITE LIGHT UT THICKNESS GAUGE:	50.87           51.42           51.65           50.87           51.43           51.79           120°           50.19           49.17           49.95           50.19           49.18           49.31           50.09           Accepted           Accepted           Accepted           Accepted           Accepted           Discontinuous At The Time O           cceptable As Per ASME SECTI           INSPECTION EQUII           201504052           2722003           3997	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT Constrained on the second of the secon	51.21           51.84           51.14           50.43           50.11           51.74           360*           49.09           49.25           49.66           50.28           49.18           49.21           49.99           TON RESULT           According to ASME SECTION VIII           se Are The Actual Readings No           m Evaluation           Accordance To ASME SECTION VIII           x Additional Control of the Aster Section           x Hanufacturing Date Book           12-Aug-24           14-Aug-24           14-Aug-24	ECTION VIII I DIV 1 Latest Edit eed To Follow VIII DIV 1 Latest ewith the follow VIII DIV 1 Latest eed To Follow	MM THICKNESS MM DIV 1 Latest Ed ion & Manufactur As Per Manuf st Edition TEC Magnaflux MANUFACTURE	ALLOWANCE ALLOWA	k ILS EXPIRE DATE JUN,2025 EXPIRE DATE	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL E SHELL F SHELL F SHELL H SHELL I UT BODY P1) The Above Item Has No Signific T-The Above Item Has No Signific	50.87           51.42           51.65           50.87           51.43           51.79           120*           50.19           49.17           49.95           50.19           49.18           49.31           50.09           Accepted           Accepted           Accepted           Accepted           Discontinuous At The Time O           cceptable As Per ASME SECTI           INSPECTION EQUIT           201504052           2722003           3997           NoBo5087	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECI ON VIII DIV 1 Latest Edition 8 PMENT DETAILS CAL DUE DATE	51.21 51.84 51.14 50.43 50.11 51.74 360° 49.09 49.25 49.66 50.28 49.18 49.21 49.99 TON RESULT According to ASME SECTION VIII See Are The Actual Readings Network Section VIIII See	ECTION VIII I DIV 1 Latest Edit eed To Follow VIII DIV 1 Latest VIII DIV 1 Latest UVIII DIV 1 Latest VIII DIV 1 Latest	MM THICKNESS MM DIV 1 Latest Edition St Edition TEC MANUTACTURE Magnaflux	ALLOWANCE ALLOWA	k ILS EXPIRE DATE JUN.2025	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL F SHELL G SHELL H SHELL I UT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT IT IT IT IT IT IT IT IT IT IT IT	50.87           51.42           51.65           50.87           51.43           51.79           120*           50.19           49.17           49.95           50.19           49.18           49.31           50.09           Accepted           Accepted           Accepted           Accepted           Discontinuous At The Time O           ccceptable As Per ASME SECT           INSPECTION EQUID           201504052           2722003           3997           NoBo5087           1657	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT Constrained on the second of the secon	51.21           51.84           51.14           50.43           50.11           51.74           360*           49.09           49.25           49.66           50.28           49.18           49.21           49.99           TON RESULT           According to ASME SECTION VIII           se Are The Actual Readings No           m Evaluation           Accordance To ASME SECTION VIII           x Additional Control of the Aster Section           x Hanufacturing Date Book           12-Aug-24           14-Aug-24           14-Aug-24	ECTION VIII 1 DIV 1 Latest Edit eed To Follow VIII DIV 1 Latest WHIE Contrast WCP- 2 Black Magnetic Ink 7HF	MM THICKNESS MM DIV 1 Latest Ed ion & Manufactur As Per Manuf st Edition TEC Magnaflux MANUFACTURE	ALLOWANCE ALLOWA	k ILS EXPIRE DATE JUN,2025 EXPIRE DATE	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B2 SHELL C SHELL D SHELL D SHELL F SHELL F SHELL G SHELL H SHELL I UT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT BODY IT IT IT BODY IT IT IT IT IT IT IT IT IT IT IT IT IT	50.87           51.42           51.65           50.87           51.43           51.79           120*           50.19           49.17           49.95           50.19           49.18           49.31           50.09           Accepted           Accepted           Accepted           Accepted           Discontinuous At The Time Occeptable As Per ASME SECT           INSPECTION EQUID           201504052           2722003           3997           NoBo5087           1657           3680 lux	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECI Cal Due DATE	51.21 51.84 51.14 50.43 50.11 51.74 360° 49.09 49.25 49.66 50.28 49.18 49.21 49.99 TON RESULT According to ASME SECTION VIII se Are The Actual Readings Ne on Evaluation Accordance To ASME SECTION VIII se Are The Actual Readings Ne on Evaluation Accordance To ASME SECTION VIII se Are The Actual Readings Ne on Evaluation Accordance To ASME SECTION VIII se Are The Actual Readings Ne on Evaluation Accordance To ASME SECTION VIII Secondance To ASME SECTION VIII Secondance To ASME SECTION VIII Secondance To ASME SECTION VIII Accordance To ASME SECTION VIII Secondance To ASME SECON Secondance T	ECTION VIII 1 DIV 1 Latest Edit eed To Follow VIII DIV 1 Latest WHIE Contrast WCP- 2 Black Magnetic Ink 7HF	MM THICKNESS MM DIV 1 Latest Edition TEC Manufactur As Per Manufactur St Edition TEC Magnaflux Magnaflux Magnaflux	ALLOWANCE ALLOWA	k ILS EXPIRE DATE JUN.2025 EXPIRE DATE JUN.2025	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL F SHELL G SHELL H SHELL H SHELL I UT BODY P1) The Above Item Has No Signific T-The Above Item Was Found A AC YOKE S.N: Digital Lux Meter WHITE LIGHT UT TEST BLOCK: ASTM Test Block: WHITE LIGHT INTENSITY: PERSON D	50.87           51.42           51.65           50.87           51.43           51.79           120*           50.19           49.17           49.95           50.19           49.18           49.31           50.09           Accepted           Accepted           Accepted           Accepted           Accepted           201504052           2722003           3997           NoBo5087           1657           3680 lux           ETATLS	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT 61 Second And Found Acceptable CON VIII DIV 1 Latest Edition 8 PMENT DETAILS CAL DUE DATE CAL D	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.18 49.21 49.21 49.99 <b>TON RESULT</b> According to ASME SI According to ASME SECTION VIII se Are The Actual Readings No <b>on Evaluation</b> Accordance To ASME SECTION VIII se Are The Actual Readings No <b>on Evaluation</b> Accordance To ASME SECTION VIII se Are The Actual Readings No <b>on Evaluation</b> Accordance To ASME SECTION VIII se Are The Actual Readings No <b>on Evaluation</b> Accordance To ASME SECTION VIII Se Are The Actual Readings No <b>on Evaluation</b> 12-Aug-24 14-Aug-24 14-Aug-24 12-Aug-24 324 335 345 345 345 345 345 345 34	ECTION VIII I DIV 1 Latest Edit eed To Follow VIII DIV 1 Latest Edit	MM THICKNESS THICKNESS THICKNESS Magnaflux Magnaflux Magnaflux Magnaflux Magnaflux	ALLOWANCE ALLOWA	k ILS EXPIRE DATE JUN.2025 EXPIRE DATE JUN.2025	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL G SHELL H SHELL H SHELL I UT BODY UT BODY IPJ) The Above Item Has No Signific T-The Above Item Was Found A AC YOKE S.N: Digital Lar Meter WHITE LIGHT UT THICKNESS GAUGE: UT TEST BLOCK: ASTM Test BLOCK:	50.87           51.42           51.65           50.87           51.43           51.79           120           50.19           49.17           49.95           50.19           49.17           49.95           50.19           49.13           50.09           Accepted           Accepted           Accepted           Accepted           Accepted           201504052           2722003           3997           NoBo5087           1657           3680 lux           CTAILS	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECI Cal Due DATE	51.21 51.84 51.14 50.43 50.11 51.74 360° 49.09 49.25 49.66 50.28 49.18 49.21 49.99 TON RESULT According to ASME SECTION VIII se Are The Actual Readings Ne on Evaluation Accordance To ASME SECTION VIII se Are The Actual Readings Ne on Evaluation Accordance To ASME SECTION VIII se Are The Actual Readings Ne on Evaluation Accordance To ASME SECTION VIII se Are The Actual Readings Ne on Evaluation Accordance To ASME SECTION VIII se Are The Actual Readings Ne on Evaluation Accordance To ASME SECTION VIII Accordance To ASME SECTION VIII Second Second	ECTION VIII I DIV 1 Latest Edit eed To Follow VIII DIV 1 Latest Edit	MM THICKNESS MM DIV 1 Latest Edition TEC Manufactur As Per Manufactur St Edition TEC Magnaflux Magnaflux Magnaflux	ALLOWANCE ALLOWA	k ILS EXPIRE DATE JUN.2025 EXPIRE DATE JUN.2025	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL F SHELL G SHELL H SHELL H SHELL H SHELL I UT BODY EPJ The Above Item Has No Signific T-The Above Item Was Found A AC YOKE S.N: Digital Lux Meter WHITE LIGHT UT THECKNESS GAUGE: UT TEST BLOCK: ASTM Test Block: WHITE LIGHT INTENSITY: PERSON D	50.87           51.42           51.65           50.87           51.43           51.79           120*           50.19           49.17           49.95           50.19           49.18           49.31           50.09           Accepted           Accepted           Accepted           Accepted           Accepted           201504052           2722003           3997           NoBo5087           1657           3680 lux           ETATLS	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT 61 Second And Found Acceptable CON VIII DIV 1 Latest Edition 8 PMENT DETAILS CAL DUE DATE CAL D	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.18 49.21 49.21 49.99 <b>TON RESULT</b> According to ASME SI According to ASME SECTION VIII se Are The Actual Readings No <b>on Evaluation</b> Accordance To ASME SECTION VIII se Are The Actual Readings No <b>on Evaluation</b> Accordance To ASME SECTION VIII se Are The Actual Readings No <b>on Evaluation</b> Accordance To ASME SECTION VIII se Are The Actual Readings No <b>on Evaluation</b> Accordance To ASME SECTION VIII Se Are The Actual Readings No <b>on Evaluation</b> 12-Aug-24 14-Aug-24 14-Aug-24 12-Aug-24 38 BY	ECTION VIII I DIV 1 Latest Edit eed To Follow VIII DIV 1 Latest Edit	MM THICKNESS THICKNESS THICKNESS Magnaflux Magnaflux Magnaflux Magnaflux Magnaflux	ALLOWANCE ALLOWA	k ILS EXPIRE DATE JUN.2025 EXPIRE DATE JUN.2025	
LEFT SIDE A1 LEFT SIDE A2 LEFT SIDE A3 RIGHT SIDE B1 RIGHT SIDE B2 RIGHT SIDE B3 ANGLE SHELL C SHELL D SHELL D SHELL F SHELL G SHELL F SHELL G SHELL H SHELL I UT BODY PI) The Above Item Has No Signific T-The Above Item Was Found A CYOKE S.N C-The Above Item Was Found A Digital Lux Meter WHITE LIGHT UT THICKNESS GAUGE: UT TEST BLOCK: ASTM Test BLOCK: WHITE LIGHT INTENSITY: PERSON D INSPECTOR NAME:	50.87           51.42           51.65           50.87           51.43           51.79           120           50.19           49.17           49.95           50.19           49.17           49.95           50.19           49.13           50.09           Accepted           Accepted           Accepted           Accepted           Accepted           201504052           2722003           3997           NoBo5087           1657           3680 lux           CTAILS	240° 51.13 50.12 51.79 51.63 51.44 51.78 THICKNESS AT POSITION 240° 49.14 49.18 50.77 50.20 49.19 49.30 50.08 INSPECT Character of the second	51.21 51.84 51.14 50.43 50.11 51.74 <b>360°</b> 49.09 49.25 49.66 50.28 49.18 49.21 49.99 <b>TON RESULT</b> According to ASME SECTION VIII according to ASME SECTION VIII se Are The Actual Readings Norther Statement According to ASME SECTION VIII se Are The Actual Readings Norther Statement According to ASME SECTION VIII se Are The Actual Readings Norther Statement According to ASME SECTION VIII Se Are The Actual Readings Norther Statement According to ASME SECTION VIII Se Are The Actual Readings Norther Statement According to ASME SECTION VIII Se Are The Actual Readings Norther Statement According to ASME SECTION VIII Second Statement Second Statement Accord According to ASME SECTION VIII Second Statement Accord Accord Accord Statement Accord Accord Ac	ECTION VIII I DIV 1 Latest Edit eed To Follow VIII DIV 1 Latest Edit	MM THICKNESS THICKNESS MM THICK	ALLOWANCE ALLOWA	k ILS EXPIRE DATE JUN.2025 EXPIRE DATE JUN.2025	

Basra, North Rumaila, Quality Control Yard - Iraq



#### CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION

		ES WITH RECOGNIZED IN	TERNATIONAL STAI	NDARDS & TECHNIC	CAL REQUIEREM	ENTS			
CLIENT:	HALLIB	JRTON	REPOR	T No.:	QC	C-24-05-TSS-HALI	-NDT-003		
LOCATION:	TSS WORKSHOP & IN	SPECTION TEST AREA	JOB	NO :		-24-05-TSS-NDT-			
WORK ORDER #	3265	89883	SPECIFIC	CATION:		SECTION VIII DIV S STANDARD NAC Manufacturing Dat	E MR-01-75		
INSPECTION DATE:	Tuesday, N	lay 14, 2024	INSP. DU	E DATE:	Tuesday, May 13, 2025				
TYPE OF INSPECTION:		ISUAL AND MAGNETIC	PARTICLE INSPE	CTION AND ULTRA	ASONIC THICKI	NESS GAUGING	1		
DESCRIPTION:	SEPARATOR (	GAS OUT LINE	SAP E	Q.NO:		11484041			
MANUFACTURER:	SPECIALIS	T SERVICES	MANUFACTUR	ER SERIAL NO:		FFZ-257			
	H C C C C C C C C C C C C C C C C C C C		C A	B:3'0 CL0 C :6'0 CL * ALL RE	180 LOCK / FORWARD DCK / FORWA				
ANGLE		THICKNESS AT POS	SITION		(a) Normal condition	Undersade (b) C Fiscal	Control of control for a surface. Stora gather lawscame with a surface. Stora gather lawscame with a surface. AL REMARKS		
	0°	90°	180°	270°	ALLOWANCE	FIN			
A	11.52	11.65	11.39	11.56					
В	11.09	11.39	11.21	11.26					
C	11.37	11.45	11.72	11.60					
D	11.56 11.44	11.65	11.68	11.61	2 MM	SATISFACTORY			
E F	11.44	11.52	11.44 11.48	11.51 11.60	3 MM	5411	SFACIORI		
G	11.40	11.52		11.52	11.48	11.00			
н	11.69	11.81	11.75	11.70					
	10.28	10.30	10.34	10.27					
	10120		PECTION RESULT	10.27	I	L			
VT & MPI	Accepted			o ASME SECTION V	II DIV 1 Latest Ed	ition			
UT	Accepted		According to ASME SEC						
BODY	Accepted		These Are The Actual F				5		
5051	Incepted		ection Evaluation			June Date Dool			
( <b>MPI</b> ) The Above Item Has No Signific	ant Discontinuous At The Tin			ASME SECTION VIII D	IV 1 Latest Edition				
U.T-The Above Item Was Found A		-	-						
	INSPECTION EQUIPMI				TECHNIC	CAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	12-Aug-24		MANUFACTURE	BATCH NO	EXPIRE DATE		
Digital Lux Meter			-	White Contrast WCP-2					
WHITE LIGHT	2722003	CAL DUE DATE	14-Aug-24		Magnaflux	220602	JUN,2025		
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24	Black Magnetic Ink 7HF	MANUFACTURE	BATCH NO	EXPIRE DATE		
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24	/ 11	Magnaflux	220605	JULY.2025		
ASTM Test Block:	1657	CAL DUE DATE	12-Aug-24	Fluorescent Mag	netic Ink 7HF	1.2 to	2.4 ml/100 ml		
WHITE LIGHT INTENSITY:	3680 lux						· · ·		
PERSON DE	ТАЦ	REV	IEW BY						
INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED I	HUSSAIN	CLIENT:				
QUALIFICATION:	SALE E B & TH TH	INSPECTION SUPERVISOR:	HANI	HB&SIGN					
SIGNATURE & STAMP:	$\chi 2 $		DATE:						
Original - Client Files Copy - A	rea Office	77 Rev.00 DATED 07.NOV	V. 2021						

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Basra, North Rumaila, Quality Control Yard - Iraq

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#### CERTIFICATE OF QUALIFICATION VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING INSPECTION

CLIENT:	HALLIB		REPOR	NDARDS & TECHNIC T No.:		C-24-05-TSS-HALL	-NDT-004	
LOCATION:	TSS WORKSHOP & IN	SPECTION TEST AREA	JOB	NO :	QC	-24-05-TSS-NDT-	HALL-007	
WORK ORDER #	3265	89883	SPECIFIC	CATION:		SECTION VIII DIV S STANDARD NACI Manufacturing Dat	E MR-01-75	
INSPECTION DATE:	Tuesday, M	ay 14, 2024	INSP. DU	E DATE:	נ	<b>Fuesday, May 1</b>	3, 2025	
TYPE OF INSPECTION:	I	ISUAL AND MAGNETIC	PARTICLE INSPE	CTION AND ULTR/	ASONIC THICKI	NESS GAUGING		
DESCRIPTION:	SEPARATOR (	DIL OUT LINE	SAP EG	Q.NO:	11484041			
MANUFACTURER:	SPECIALIS	T SERVICES	MANUFACTURI	R SERIAL NO:		FFZ-257		
		INSP	ECTION DETAILS					
		G H		B:3'O CLC C :6'O CL * ALL REA	180 LOCK / FORWARD DCK / FORWARD DCK / CENTER DCK / AFT ADINGS IN MM IUM THICKNESS PROVID			
ANGLE		THICKNESS AT POS	ITION		(a) Normal condition	Targat Underside (3) C Forth sector	AL REMARKS	
ANGLE	0°	90°	180°	270°	ALLOWANCE	FIN		
A	9.12	9.21	9.04	9.07				
В	8.91	9.21	9.03	9.08				
C	9.19	9.27	9.28	9.16				
D	9.16	9.25	9.28	9.21	2204	0.1 m		
E	9.04 9.28	9.12	9.26	9.33	3 MM	SATI	SFACTORY	
F	9.28	9.34 9.27	9.30 9.39	9.42 9.30				
Н	9.29							
п I	8.79	9.41	9.48 8.85	9.41				
I	0.75	8.81	8.85 PECTION RESULT	8.78		l		
VT & MPI	Accepted	11151		O ASME SECTION VI	II DIV 1 Latest Ed	ition		
			According to ASME SEC					
UT	Accepted							
BODY	Accepted		These Are The Actual R	eauings need 10 Foll	ow As Per Manuf	acturing Date Bool		
MPI) The Above Item Has No Significa	ant Discontinuous At The Ti-		ection Evaluation	ASME SECTION VILLE	IV 1 Latast Editio-			
J.T-The Above Item Was Found Ac		-	-		1 y 1 Latest Eulijon			
	INSPECTION EQUIPMI				TECHNIC	CAL DETAILS		
			12 Acre 24				PUDINE DAME	
AC YOVE A Y		CAL DUE DATE	12-Aug-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE	
AC YOKE S.N: Digital Lux Meter	201504052							
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	14-Aug-24		Magnaflux	220602	JUN,2025	
Digital Lux Meter	2722003 3997		14-Aug-24 14-Aug-24	Black Magnetic Ink	Magnaflux MANUFACTURE	BATCH NO	EXPIRE DATE	
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	_	Black Magnetic Ink 7HF	-			
Digital Lux Meter WHITE LIGHT UT THICKNESS GAUGE:	2722003 3997	CAL DUE DATE	14-Aug-24	7HF	MANUFACTURE Magnaflux	<b>BATCH NO</b> 220605	EXPIRE DATE	
Digital Lux Meter WHITE LIGHT UT THICKNESS GAUGE: UT TEST BLOCK:	2722003 3997 NoBo5087	CAL DUE DATE CAL DUE DATE CAL DUE DATE	14-Aug-24 14-Aug-24		MANUFACTURE Magnaflux	<b>BATCH NO</b> 220605	EXPIRE DATE	
Digital Lux Meter WHITE LIGHT UT THICKNESS GAUGE: UT TEST BLOCK: ASTM Test Block:	2722003 3997 NoBo5087 1657 3680 lux	CAL DUE DATE CAL DUE DATE CAL DUE DATE CAL DUE DATE	14-Aug-24 14-Aug-24	7HF	MANUFACTURE Magnaflux	<b>BATCH NO</b> 220605	EXPIRE DATE JULY.2025	
Digital Lux Meter WHITE LIGHT UT THICKNESS GAUGE: UT TEST BLOCK: ASTM Test Block: WHITE LIGHT INTENSITY:	2722003 3997 NoBo5087 1657 3680 lux AILS // M.Shahzad Ahmed	CAL DUE DATE CAL DUE DATE CAL DUE DATE CAL DUE DATE	14-Aug-24 14-Aug-24 12-Aug-24	7HF Fluorescent Mag	MANUFACTURE Magnaflux	<b>BATCH NO</b> 220605	EXPIRE DATE JULY.2025	
Digital Lux Meter WHITE LIGHT UT THICKNESS GAUGE: UT TEST BLOCK: ASTM Test Block: WHITE LIGHT INTENSITY: PERSON DET	2722003 3997 NoBo5087 1657 3680 lux	CAL DUE DATE CAL DUE DATE CAL DUE DATE CAL DUE DATE REV	14-Aug-24 14-Aug-24 12-Aug-24	7HF Fluorescent Mag HUSSAIN	MANUFACTURE Magnaflux netic Ink 7HF	<b>BATCH NO</b> 220605	EXPIRE DATE JULY.2025	

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Basra, North Rumaila, Quality Control Yard - Iraq



CLIENT:	THIS REPORT COMPLI	ES WITH RECOGNIZED IN JRTON	ITERNATIONAL STAN			ENTS 2-24-05-TSS-HALL	NDT-005
LOCATION:		SPECTION TEST AREA	JOBN	10 :	00-	24-05-TSS-NDT	-HALL-007
WORK ORDER #		89883	SPECIFIC		ASME	SECTION VIII DIV S STANDARD NACI Manufacturing Dat	1 Latest Edition E MR-01-75
INSPECTION DATE:	Tuesday, N	lay 14, 2024	INSP. DUI	E DATE:	1	luesday, May 1	
TYPE OF INSPECTION:	VI	SUAL AND MAGNETIC	PARTICLE INSPEC	TION AND ULTR	ASONIC THICK	NESS GAUGIN	G
DESCRIPTION:	SEPARATOR W	ATER OUT LINE	SAP EC	),NO:		11484041	
MANUFACTURER:	SPECIALIS	T SERVICES	MANUFACTURE	R SERIAL NO:		FFZ-257	
Ů∎⊂Û≖⊂ <mark>₽</mark> ₩₩₽₽₽₽	E	ぜ┋╞╍╍╍┺┋╋╼╡╢	B R A	B:3'O CL C :6'O CL * ALL RE	180 LOCK / FORWARD OCK / CENTER OCK / AFT ADINGS IN MM AUM THICKNESS PROVUL		
		THICKNESS AT POS	ITION		(a) Normal condition	Underside (b) C Underside (b) C Etalia diffun scab	Corroled condition formation present on back surface. Solins echo backsone wide small by near initiation seased by corroled our studies.
ANGLE	0°	90°	180°	270°	ALLOWANCE	FIN	AL REMARKS
Α	7.12	7.24	7.08	7.15			
В	6.95	7.25	7.07	7.12			
С	7.18	7.26	7.31	7.19	3 MM	SATI	SFACTORY
D	7.16	7.25	7.28	7.21			
E	7.08	7.16	7.30	7.37			
F	7.27	7.33	7.29 ECTION RESULT	7.41			
VT & MPI	Accepted	INSP		TO ASME SECTION	VIII DIV 1 Latert 1	Edition	
UT	Accepted Accepted		According to ASME SECT				
BODY			These Are The Actual R				c
ITTOT	Accepted		ection Evaluation	caamgo need 10 POII		couring Date DOOR	•
(MPI) The Above Item Has No Signific	ant Discontinuous At The Tim	-		SME SECTION VIII DI	V 1 Latest Edition		
U.T-The Above Item Was Found A	cceptable As Per ASME SEC	TION VIII DIV 1 Latest Edit	ion & Manufacturing D	ate Book			
	INSPECTION EQUIPMI	ENT DETAILS			TECHNIC	CAL DETAILS	
AC YOKE S.N:	201504052	CAL DUE DATE	12-Aug-24		MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter	2722003	CAL DUE DATE	14-Aug-24	White Contrast WCP-2	Magnaflux	220602	JUN,2025
WHITE LIGHT UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24	Black Magnetic Ink	MANUFACTURE	BATCH NO	EXPIRE DATE
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	14-Aug-24	7HF	Magnaflux	220605	JULY.2025
ASTM Test Block:	1657	CAL DUE DATE	12-Aug-24				I
WHITE LIGHT INTENSITY:	3680 lux			Fluorescent Mag	netic Ink 7HF	1.2 to	2.4 ml/100 ml
PERSON DE		REV	IEW BY				
INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED H	IUSSAIN	CLIENT:		
QUALIFICATION:	SALE SUBATAR	INSPECTION SUPERVISOR:	HANI		HB&SIGN		
SIGNATURE & STAMP:	X 2 / 1				DATE:		
	rea Office QC/FN/PT/07	7 Rev.00 DATED 07.NOV.	2021				







Basra, North Rumaila, Quality Control Yard - Iraq



		ES WITH RECOGNIZED IN	TERNATIONAL STAN	IDARDS & TECHNIC	CAL REQUIEREM	ENTS			
CLIENT:	HALLIB	JRTON	REPOR	T No.:	QC	C-24-05-TSS-HALL	-NDT-006		
LOCATION:	TSS WORKSHOP & IN	SPECTION TEST AREA	JOBN	NO :	QC	-24-05-TSS-NDT-	HALL-007		
WORK ORDER #	3265	89883	SPECIFIC	CATION:		SECTION VIII DIV S STANDARD NACI Manufacturing Dat	E MR-01-75		
INSPECTION DATE:	Tuesday, M	fay 14, 2024	INSP. DUI	E DATE:	Tuesday, May 13, 2025				
TYPE OF INSPECTION:	VI	SUAL AND MAGNETIC	PARTICLE INSPEC	CTION AND ULTR	ASONIC THICKNESS GAUGING				
DESCRIPTION:	SEPARATOR	RELIEF LINE	SAP EC	Q.NO:		11484041			
MANUFACTURER:	SPECIALIS	T SERVICES	MANUFACTURE	ER SERIAL NO:		FFZ-257			
		INSP	ECTION DETAILS						
A		E	F	B:3'O CLC C :6'O CL * ALL RE/	0 180 LOCK / FORWARD DCK / AFT ADINGS IN MM IUM THICKNESS PROVI				
					Large Area of diff reflection extra 1	uned echo terretection echo Surface Targent Undersase (b) C Fright accol	Area of diffused action		
ANGLE	0°	THICKNESS AT POS	-		CORROSION ALLOWANCE	FIN	AL REMARKS		
A	9.67	90° 9.76	<b>180°</b> 9.64	270° 9.66	ALLOWARDL				
В	9.35	9.65	9.47	9.52					
С	9.52	9.60	9.83	9.71	_				
D	9.53	9.62	9.65	9.58	3 MM	SATI	SFACTORY		
E	9.48	9.56	9.70	9.77					
F	9.61	9.67	9.63	9.75					
		INSF	PECTION RESULT						
VT & MPI	Accepted		* ACCORDING	TO ASME SECTION	VIII DIV 1 Latest	Edition			
UT	Accepted		According to ASME SEC	TION VIII DIV 1 Latest	Edition & Manufact	uring Date Book			
BODY	Accepted	*** ]	These Are The Actual R	eadings Need To Foll	ow As Per Manufa	acturing Date Book			
		-	ection Evaluation						
(MPI) The Above Item Has No Signific		-	-		V 1 Latest Edition				
U.T-The Above Item Was Found A	· ·		tion & Manufacturing D	Date Book					
	INSPECTION EQUIPMI	INT DETAILS			TECHNIC	CAL DETAILS			
AC YOKE S.N:	201504052	CAL DUE DATE	12-Aug-24	White Contrast WCP-2	MANUFACTURE	BATCH NO	EXPIRE DATE		
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	14-Aug-24		Magnaflux	220602	JUN,2025		
UT THICKNESS GAUGE:	3997	CAL DUE DATE	14-Aug-24	Black Magnetic Ink	MANUFACTURE	BATCH NO	EXPIRE DATE		
UT TEST BLOCK:	NoBo5087	CAL DUE DATE	7HF	Magnaflux	220605	JULY.2025			
ASTM Test Block:	1657	CAL DUE DATE	and tal grow		0.41/1001				
WHITE LIGHT INTENSITY:	3680 lux			Fluorescent Mag	nedc ing 7HF	1.2 to	2.4 ml/100 ml		
PERSON DE	TAILS	REV	IEW BY						
INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED F	IUSSAIN	CLIENT:				
						1			
QUALIFICATION:	SNLD A HATST	INSPECTION SUPERVISOR:	HANI	ALI	HB&SIGN				
QUALIFICATION: SIGNATURE & STAMP:	SNLD F. U. K. IN T.	INSPECTION SUPERVISOR:	HANI	ALI	HB&SIGN DATE:				







Basra, North Rumaila, Quality Control Yard - Iraq



CI IENET.	HALLIB		REPOR		CAL REQUIEREM		NIDT 007	
CLIENT:					-	C-24-05-TSS-HALL		
LOCATION:	TSS WORKSHOP & IN	SPECTION TEST AREA	JOB	NO :		-24-05-TSS-NDT-		
WORK ORDER #	3265	89883	SPECIFIC	CATION:		2 SECTION VIII DIV S STANDARD NACI Manufacturing Dat	E MR-01-75	
INSPECTION DATE:	Tuesday, M	lay 14, 2024	INSP. DU	E DATE:	Tuesday, May 13, 2025			
TYPE OF INSPECTION:	V	ISUAL AND MAGNETIC	PARTICLE INSPEC	CTION AND ULTRA	ASONIC THICK	NESS GAUGINO	3	
DESCRIPTION:	SEPARATOR	INLET LINE	SAP EC	Q.NO:		11484041		
MANUFACTURER:	SPECIALIS	T SERVICES	MANUFACTURI	ER SERIAL NO:		FFZ-257		
		INSP	ECTION DETAILS					
				B:3'O CL( C :6'O CL * ALL RE/	180 LOCK / FORWARD OCK / FORWARD OCK / FORWARD OCK / FORWARD OCK / FORWARD OCK / FORWARD OCK / FORWARD			
ANGLE	0°	THICKNESS AT POS			CORROSION	FIN	ALL DELAADIZE	
					ALLOWANCE			
Δ	-	90°	180°	270°	ALLOWANCE		AL REMARKS	
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B C D	9.12 8.90 9.31 8.91	9.19 9.22 9.43 9.00	9.07 9.04 9.26 9.03 PECTION RESULT	9.09 9.55 9.14 8.96 TO ASME SECTION	3 MM	SATI		
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C	ERTIFIC	CATION OF	VISUA	l, TH	HORO	UGH	EXAM	INATON	<b>8 M</b>	AGNETIC P.	ARTICLE IN	NSPECTION
Clien	t:	I	IALLIBURTO	N (TSS)			Rep	ort No:			QC-24-05-TSS-NDT-0	08
Locatio	on:	TSS WORKS	HOP & INSPE	CTION T	EST AREA		WOR	K ORDER			326589883	
Date	:	1	Tuesday, May	14, 2024			Next Insp	pection Date:			Tuesday, May 13, 202	25
Type Of Ins	pection:	VISUAL , THOROUGH EXA	MINATION & M	IAGNETIC	PARTICLE INS	PECTION	Speci	ification:		ASTM E709 & .	ASTM E 1444 (2016) ASM	E V Article 7 (2019)
							υ	NIT DESCRIPTI	ON:		3" BALON V	ALVE 600
								UNIT S/N:			8 FM	Q
		-	E	-10			SE	PARATOR SAP	NO:		114840	041
		1 5-	1	0						INSPECTIO	N RESULT :	
	0		-				VISUAI	L , THOROUGH EX	AMINATION			TION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION
		PD	13	2	9		MAG	NETIC PARTICLE II	NSPECTION		Avaliable critical and found free from cr	•
	0							FINAL RESUL	rs	т	HE ABOVE INSPECTED	AREAS WAS ACCEPTED
							COMMENT: Magnet		ction With A/	' C Hand Yoke , Black & V	Vhite Contrast	
		EQUIPME	NT DETAIL	S				F	ERSON DE	ETAILS		REVIEW BY
Equipment:	AC-Yoke Test Blo	ock <b>Equipment:</b>	Digital Lux M	Aeter (	Equipment	AC/	/DC Yoke	INSPECTOR NA M.Shahzad Ah		Mul Company	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	272200	3	S.No:	201	1504052			THE AND		
Cal Due Date:	12-Aug-24	Cal Due Date:	14-Aug-2	24	Cal Due Date	: 12	-Aug-24	QUALIFICAT		CARDEROL	SUPERVISOR:	HANI ALI
Black Magnetic	Ink Manufactur	e: Magnaflux	Batch No:	22060	5 Expiry D	Jate: J	ULY.2025	ASNT LEVEL		Nº CONS	SUPERVISUR:	HANI ALI
Whie Contrast P	aint Manufactur	e: Magnaflux	Batch No:	22060	2 Expiry D	ate:	JUN,2025	MT & PT & '	VT	Lor prineer 102		
	Ma	agnetic Partical Concentr	ation	Metho	od	WMPT Lig	ht Intensity	STAMP &	$\mathcal{A}$	Figure	CLIENT:	
Technical D	etails:	1.2 to 2.4 ml/100 ml	Wet M	agnetic Par (WMP)	rticle Testing	362	0 Lux	SIGNATUR	E:			
Original - C	lient Files	Copy - Area Office	Q	C/FN/MPI/		DATED 07	7 Nov 2021	ł			ļ	I





C	ERTIF	[CA	TION OF	VIS	UAl, '	THO	OROU	JGH	EXAM	INATON	<b>1 &amp;</b> 1	MAG	NETIC P	ARTICLE IN	ISPECTION
Client	:		1	HALLIBU	JRTON (T	'SS)			Rep	ort No:				QC-24-05-TSS-NDT-0	09
Locatio	n:		TSS WORKS	HOP & I	NSPECTIC	ON TEST	AREA		WOR	K ORDER				326589883	
Date:				Гuesday,	May 14, 20	024			Next Insp	pection Date:				Tuesday, May 13, 202	5
Type Of Insp	ection:	VISU	AL , THOROUGH EXA	MINATIC	ON & MAGNI	ETIC PAI	RTICLE INS	PECTION	Speci	fication:			ASTM E709 &	ASTM E 1444 (2016) ASM	E V Article 7 (2019)
									U	NIT DESCRIPTI	ON:			3" BALON VA	ALVE 600
										UNIT S/N:				1 FM	R
					E.				SE	PARATOR SAP	NO:			114840	41
			1 5-		30								INSPECTIO	N RESULT :	
		-							VISUAI	L , THOROUGH EX		TION			ION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION
	2			12		2	4		MAG	NETIC PARTICLE I	NSPECTI	ON		Avaliable critical and found free from cra	•
	0	1								FINAL RESUL	rs		т	HE ABOVE INSPECTED	AREAS WAS ACCEPTED
									COMMENT: Magnet		ction W	ith A/C Han	d Yoke , Black & V	Vhite Contrast	
			EQUIPME	NT DET	ΓAILS					F	PERSO	N DETAII	LS		REVIEW BY
Equipment:	AC-Yoke Test l	Block	Equipment:	Digita	l Lux Meter	Ес	quipment:	AC	/DC Yoke	INSPECTOR NA M.Shahzad Ah		Im	Company	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657		S.No:	27	722003		S.No:	20	1504052			131	TAT		
Cal Due Date:	12-Aug-24	4	Cal Due Date:	14	-Aug-24	Ca	al Due Date:	12	2-Aug-24	QUALIFICAT	ION		A DAROL	SUPERVISOR:	HANI ALI
Black Magnetic	Ink Manufact	are:	Magnaflux	Batcl	h No: 22	20605	Expiry D	ate:	JULY.2025	ASNT LEVE		( my	5 13	JOI ERVIJOR.	
Whie Contrast Pa	aint Manufact	ure:	Magnaflux	Batcl	h No: 22	20602	Expiry D	ate:	JUN,2025	MT & PT &	VT	Tion I	Hoomeering		
		Magne	tic Partical Concenti	ation	М	lethod		WMPT Lig	ght Intensity	STAMP &			- Bure	CLIENT:	
Technical De	etails:	:	1.2 to 2.4 ml/100 ml		Wet Magneti	ic Particle WMPT)	e Testing	362	20 Lux	SIGNATUR	E:				
Original - Cli	ient Files	Со	py - Area Office				Rev.00	DATED 0	7 Nov 2021						





C	ERTIFI	CATION OF	VISU	<b>41, T</b> I	HORO	UGH	EXAM	INATON	1 & M	AGNETIC P	ARTICLE IN	NSPECTION
Clien	t:	]	HALLIBURT	ON (TSS)			Rep	oort No:			QC-24-05-TSS-NDT-0	10
Locatio	on:	TSS WORKS	HOP & INSP	ECTION 7	TEST AREA		WOR	K ORDER			326589883	
Date	:		Fuesday, May	14, 2024			Next Insp	pection Date:			Tuesday, May 13, 202	25
Type Of Ins	pection:	VISUAL , THOROUGH EXA	MINATION &	MAGNETIC	C PARTICLE INS	PECTION	Speci	ification:		ASTM E709 & A	ASTM E 1444 (2016) ASM	E V Article 7 (2019)
							υ	NIT DESCRIPTI	ON:		3" BALON VA	ALVE 600
								UNIT S/N:			0 FM	N
			-				SE	EPARATOR SAP	NO:		114840	941
		4 5	E T	0						INSPECTION	N RESULT :	
			-				VISUAI	L , THOROUGH EX				ION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION
		PL	to l	Z	9		MAGI	NETIC PARTICLE II	NSPECTION		Avaliable critical and found free from cra	•
	0							FINAL RESUL	rs	т	HE ABOVE INSPECTED	AREAS WAS ACCEPTED
							COMMENT: Magnet		ction With A	\ \/C Hand Yoke , Black & W	/hite Contrast	
		EQUIPME	NT DETAII	LS			-	F	PERSON D	ETAILS		REVIEW BY
Equipment:	AC-Yoke Test Bl	ock Equipment:	Digital Lux	Meter	Equipment	AC,	/DC Yoke	INSPECTOR NA M.Shahzad Ah		mul Company	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	27220	03	S.No:	20	1504052	M.Shalizati Ali				
Cal Due Date:	12-Aug-24	Cal Due Date:	14-Aug	-24	Cal Due Date	: 12	-Aug-24	QUALIFICAT		I Die ou	SUPERVISOR:	HANI ALI
Black Magnetic	Ink Manufactur	re: Magnaflux	Batch No:	22060	05 Expiry I	ate: J	ULY.2025	ASNT LEVEL	1000	NY 20 Ta	SUPERVISOR:	HANI ALI
Whie Contrast P	aint Manufactur	e: Magnaflux	Batch No:	22060	02 Expiry I	ate:	JUN,2025	MT & PT & '	VT	Lor Invineers		
malat in	М	agnetic Partical Concent	ration	Meth	od	WMPT Lig	ht Intensity	STAMP &	. 1	Figure	CLIENT:	
Technical D	etails:	1.2 to 2.4 ml/100 ml	Wet	Magnetic Pa (WMF	irticle Testing	362	0 Lux	SIGNATUR	E:			
Original - Cl	lient Files	Copy - Area Office		C/FN/MP		DATED 0	7 Nov 2021					





C	ERTIF	<b>ICA</b>	TION OF	VIS	UAl,	TH	ORO	JGH	EXAM	INATON	<b>8</b> 1	MAGI	NETIC P.	ARTICLE IN	NSPECTION
Client	:		1	HALLIB	URTON (I	rss)			Rep	ort No:				QC-24-05-TSS-NDT-0	11
Locatio	n:		TSS WORKS	HOP & I	INSPECTIO	ON TES	Γ AREA		WOR	K ORDER				326589883	
Date:				Гuesday,	May 14, 2	024			Next Insp	pection Date:				Tuesday, May 13, 202	25
Type Of Insp	pection:	VISU	JAL , THOROUGH EXA	MINATIO	ON & MAGN	IETIC PA	RTICLE INS	PECTION	Speci	ification:			ASTM E709 & .	ASTM E 1444 (2016) ASM	E V Article 7 (2019)
									υ	NIT DESCRIPTI	ON:			3" BALON VA	ALVE 600
										UNIT S/N:				1 FM(	ζ
					E.				SE	PARATOR SAP	NO:			114840	941
	0 0		1 5-		30								INSPECTIO	N RESULT :	
	-			11:					VISUAI	L , THOROUGH EX		TION			ION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION
	C.		-	1.	Z		4		MAGI	NETIC PARTICLE II	NSPECTIO	ON		Avaliable critical and found free from cra	•
	0	1								FINAL RESUL	rs		т	HE ABOVE INSPECTED A	AREAS WAS ACCEPTED
									COMMENT: Magnet	tic Particle Inspec	ction Wi	ith A/C Hanc	l Yoke , Black & V	Vhite Contrast	
			EQUIPME	NT DE	TAILS				-	F	ERSO	N DETAIL	S		REVIEW BY
Equipment:	AC-Yoke Test	Block	Equipment:	Digita	ıl Lux Meter	· E	quipment:	AC/	DC Yoke	INSPECTOR NA M.Shahzad Ah		Inu	Company	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657		S.No:	2	722003		S.No:	201	504052		neu	136	DT A		
Cal Due Date:	12-Aug-2	24	Cal Due Date:	14	-Aug-24	С	al Due Date	: 12	-Aug-24	QUALIFICAT			NOMO L	SUPERVISOR:	HANI ALI
Black Magnetic	Ink Manufac	ture:	Magnaflux	Batc	<b>h No:</b> 2	20605	Expiry D	ate: J	ULY.2025	ASNT LEVEL		(m)		JUF ERVISOR:	HANI ALI
Whie Contrast Pa	aint Manufac	ture:	Magnaflux	Batc	h No: 2	20602	Expiry D	ate:	UN,2025	MT & PT & '	VT	Lior	Ingineering		
		Magne	tic Partical Concent	ration	N	lethod		WMPT Lig	ht Intensity	STAMP &			ingine -	CLIENT:	
Technical D	etails:		1.2 to 2.4 ml/100 ml		Wet Magnet		e Testing	362	0 Lux	SIGNATUR		*			
Original - Cl	ient Files	Co	opy - Area Office			WMPT) /MPI/06	5 Rev.00	DATED 07	7 Nov 2021						





C	ERTIFI	[CA]	<b>FION OF</b>	VIS	SUAl,	TH	ORO	JGH	EXAM	INATON	1&1	MAG	NETIC P.	ARTICLE IN	NSPECTION
Client	:		H	IALLIB	BURTON	(TSS)			Rep	ort No:				QC-24-05-TSS-NDT-0	12
Locatio	n:		TSS WORKSH	HOP &	INSPECT	ION TES	ST AREA		WOR	K ORDER				326589883	
Date:			T	'uesday	, May 14,	2024			Next Insp	pection Date:				Tuesday, May 13, 202	25
Type Of Insp	pection:	VISUAL	L, THOROUGH EXA	MINATI	ON & MAG	NETIC P.	ARTICLE INS	PECTION	Speci	ification:			ASTM E709 & .	ASTM E 1444 (2016) ASM	E V Article 7 (2019)
									U	NIT DESCRIPTI	ON:			3" BALON V	ALVE 600
										UNIT S/N:				0 FM	IJ
			-		E.				SE	PARATOR SAP	NO:			114840	041
			Les-	5	10								INSPECTIO	N RESULT :	
									VISUAI	L , THOROUGH EX		TION			TION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION
			1	6					MAG	NETIC PARTICLE I	NSPECTIO	ON		Avaliable critical and found free from cra	•
	0	9								FINAL RESUL	rs		т	HE ABOVE INSPECTED	AREAS WAS ACCEPTED
									COMMENT: Magnet		ction Wi	ith A/C Hand	l Yoke , Black & V	Vhite Contrast	
			EQUIPME	NT DE	TAILS					F	ERSO	N DETAII	S		REVIEW BY
Equipment:	AC-Yoke Test I	Block	Equipment:	Digit	al Lux Mete	er	Equipment	AC	/DC Yoke	INSPECTOR NA M.Shahzad Ah			Compani	SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657		S.No:	2	2722003		S.No:	20	1504052	M.Shunzuu / III	incu		T		
Cal Due Date:	12-Aug-24	4	Cal Due Date:	1	4-Aug-24		Cal Due Date	1	2-Aug-24	QUALIFICAT			NOVIA OL	SUPERVISOR:	HANI ALI
Black Magnetic	Ink Manufactu	are:	Magnaflux	Bate	ch No:	220605	Expiry D	ate:	JULY.2025	ASNT LEVE		( DY		SUPERVISOR:	TANI ALI
Whie Contrast Pa	aint Manufactu	ure:	Magnaflux	Bate	ch No:	220602	Expiry D	ate:	JUN,2025	MT & PT &	VT	Thom where the second	Horineer not		
		Magnetic	Partical Concentr	ation		Method		WMPT Li	ght Intensity	STAMP &		/ >	- gane	CLIENT:	
Technical De	etails:	1.2	2 to 2.4 ml/100 ml		Wet Magn	etic Partio (WMPT)	le Testing	36	20 Lux	SIGNATUR		,			
Original - Cli	ient Files	Copy	/ - Area Office		QC/FI		5 Rev.00	DATED (	7 Nov 2021	ł					l





C	ERTIFIC	CATION OF	VISUA	l, TF	IORO	UGH I	EXAM	INATON	<b>1 &amp; M</b>	AGNETIC P.	ARTICLE II	NSPECTION	
Clien	t:	H	IALLIBURTO	N (TSS)			Rep	ort No:			QC-24-05-TSS-NDT-0	013	
Locatio	on:	TSS WORKS	HOP & INSPE	CTION T	EST AREA		WOR	K ORDER	326589883				
Date	:	1	uesday, May	14, 2024			Next Insp	pection Date:	Tuesday, May 13, 2025				
Type Of Ins	pection:	VISUAL , THOROUGH EXA	MINATION & M	IAGNETIC	PARTICLE INS	PECTION	Speci	ification:		ASTM E709 & A	ASTM E 1444 (2016) ASM	E V Article 7 (2019)	
							υ	NIT DESCRIPTI	ON:		3" BALON V	ALVE 600	
								UNIT S/N:			9 FM	Q	
			E.	-			SE	SEPARATOR SAP NO: 11484041					
										INSPECTION	N RESULT :		
	0		-				VISUAI	L , THOROUGH EX	AMINATION			TION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION	
								NETIC PARTICLE II	NSPECTION	Avaliable critical areas inspected and found free from cracks and other defects			
	0							FINAL RESUL	rs	т	HE ABOVE INSPECTED	AREAS WAS ACCEPTED	
							COMMENT: Magnet		tion With A	' /C Hand Yoke , Black & V	Vhite Contrast		
		EQUIPME	NT DETAIL	S				F	ERSON DI	ETAILS		REVIEW BY	
Equipment:	AC-Yoke Test Blo	ck Equipment:	Digital Lux N	Meter	Equipment	AC/	'DC Yoke	INSPECTOR NA M.Shahzad Ah		mul Company	SENIOR INSPECTOR:	NAVEED HUSSAIN	
S.No:	1657	S.No:	272200	3	S.No:	201	504052	M.Shanzau An					
Cal Due Date:	12-Aug-24 Cal Due Date: 14-Aug-24 Cal Due Date: 12-Aug-24				: 12	-Aug-24	QUALIFICAT		A Die ou	SUPERVISOR:	HANI ALI		
Black Magnetic	gnetic Ink Manufacture: Magnaflux Batch No: 220605 Expiry Date: J		ULY.2025	ASNT LEVEL	1000	NY 20 18	SUPERVISOR:	HANI ALI					
Whie Contrast P	Contrast Paint Manufacture:         Magnaflux         Batch No:         220602         Expiry Date:				ate:	UN,2025	MT & PT & '	VT	For Invineering				
	Magnetic Partical Concentration Method WMPT Lig		ht Intensity	sity STAMP &		Lugare	CLIENT:						
Technical D	Technical Details: 1.2 to 2.4 ml/100 ml Wet Magnetic Particle Testing (WMPT) 3620				0 Lux	SIGNATUR	E:						
Original - C	lient Files	Copy - Area Office	Q	C/FN/MPI/		DATED 07	7 Nov 2021	ł				1	





C	ERTIFI	CATION	OF VI	SUAl,	TH	OROU	JGH E	XAM	INATON	I & N	AAGNETIC P.	ARTICLE IN	NSPECTION		
Client	:		HALL	BURTON (	TSS)			Rep	ort No:			QC-24-05-TSS-NDT-0	014		
Locatio	n:	TSS V	VORKSHOP 8	& INSPECTI	ON TEST	Γ AREA		WORI	K ORDER	326589883					
Date:			Tuesda	y, May 14, 2	May 14, 2024				pection Date:			Tuesday, May 13, 202	25		
Type Of Insp	pection:	VISUAL , THOROU	JGH EXAMINA'	FION & MAGN	NETIC PA	RTICLE INSP	ECTION	Speci	fication:		ASTM E709 & .	ASTM E 1444 (2016) ASM	E V Article 7 (2019)		
								U.	NIT DESCRIPTI	ON:		3" BALON V	ALVE 600		
									UNIT S/N:			3 FM	Q		
				E				SE	PARATOR SAP	NO:		114840	941		
											INSPECTIO	N RESULT :			
									, THOROUGH EX	AMINATI			TION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION		
	- de 29							MAGNETIC PARTICLE IN			N	Avaliable critical areas inspected and found free from cracks and other defects			
	0						Γ		FINAL RESUL	rs	т	HE ABOVE INSPECTED	AREAS WAS ACCEPTED		
							c	COMMENT: Magnet		ction With	' h A/C Hand Yoke , Black & V	Vhite Contrast			
		EQU	JIPMENT D	ETAILS					F	PERSON	DETAILS		REVIEW BY		
Equipment:	AC-Yoke Test B	lock Equipme	ent: Dig	ital Lux Mete	r E	quipment:	AC/DO	C Yoke	INSPECTOR NA M.Shahzad Ah		mul Company	SENIOR INSPECTOR:	NAVEED HUSSAIN		
S.No:	1657	S.No:		2722003		S.No:	20150	04052	ini.jiuiizuu iii	incu					
Cal Due Date:	12-Aug-24	Cal Due D	Date:	: 14-Aug-24 Cal Due Date: 12			12-Aı	ug-24	QUALIFICAT		- Astron	SUPERVISOR:	HANI ALI		
Black Magnetic	Ink Manufactu	re: Magnafl	ux Ba	ch No: 220605 Expiry Date: J		ite: JUL	.Y.2025	ASNT LEVEL	1000	Col 2º Ta	SUPERVISOR:	HANI ALI			
Whie Contrast Pa	aint Manufactu	re: Magnafl	ux Ba	Batch No:   220602   Expiry Date:		ite: JUI	N,2025	MT & PT & '	VT	L'or Incineeris					
		Magnetic Partical C	Concentration	I	Method		WMPT Light	Intensity	Intensity STAMP &		Tugine	CLIENT:			
Technical De	etails:	1.2 to 2.4 ml/	'100 ml	Wet Magne	etic Particle (WMPT)	e Testing	3620 I	Lux	SIGNATUR		,				
Original - Cli	ient Files	Copy - Area Off	fice			6 Rev.00	DATED 07 N	lov 2021					<u> </u>		





C	ERTIF	ICA	TION OF	VIS	SUAl,	, TH	ORO	UGH	EXAM	INATON	1&1	MAGN	NETIC P	ARTICLE IN	NSPECTION	
Client	:		]	HALLI	BURTON	(TSS)			Rep	oort No:				QC-24-05-TSS-NDT-0	015	
Locatio	n:		TSS WORKS	HOP &	INSPECT	ION TES	ST AREA		WOR	K ORDER	326589883					
Date	:			Гuesday	y, May 14,	lay 14, 2024				pection Date:	Tuesday, May 13, 2025					
Type Of Ins	pection:	VISU	AL , THOROUGH EXA	MINAT	ION & MAG	SNETIC P.	ARTICLE INS	PECTION	Speci	ification:			ASTM E709 &	ASTM E 1444 (2016) ASM	E V Article 7 (2019)	
									υ	NIT DESCRIPTI	ON:			2" BALON V	ALVE 600	
										UNIT S/N:				6 FM	L	
			-		E.				SE	EPARATOR SAP	NO:			114840	)41	
													INSPECTIO	N RESULT :		
									VISUAI	L , THOROUGH EX	AMINAT	TION			TION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION	
									MAGI	NETIC PARTICLE II	NSPECTIC	ON	Avaliable critical areas inspected and found free from cracks and other defects			
	0	9								FINAL RESUL	rs		1	THE ABOVE INSPECTED	AREAS WAS ACCEPTED	
									COMMENT: Magnet	: tic Particle Inspec	ction Wi	ith A/C Hand	Yoke , Black & V	White Contrast		
			EQUIPME	NT DE	ETAILS					F	PERSON	N DETAIL	S		REVIEW BY	
Equipment:	AC-Yoke Test	Block	Equipment:	Digit	tal Lux Met	er	Equipment	AC,	/DC Yoke	INSPECTOR NA M.Shahzad Ah		Inul	Company	SENIOR INSPECTOR:	NAVEED HUSSAIN	
S.No:	1657		S.No:	:	2722003		S.No:	20	1504052	1.1011111111	meu	136	dr A			
Cal Due Date:	al Due Date: 12-Aug-24 Cal Due Date: 14-Aug-24 Cal Due Date: 12		-Aug-24	QUALIFICATION			1 Din o	SUPERVISOR:	HANI ALI							
Black Magnetic	lack Magnetic Ink Manufacture: Magnaflux Batch No: 220605 Expiry Date: JU		ULY.2025	ASNT LEVEL	10	(0)		SUPERVISOR:	TANI ALI							
Whie Contrast P	Contrast Paint Manufacture:         Magnaflux         Batch No:         220602         Expiry Date:         J		JUN,2025	MT & PT & VT		L'or	Le S									
	Magnetic Partical Concentration Method WMPT Ligh		ht Intensity	STAMP &				CLIENT:								
Technical D	etails:		1.2 to 2.4 ml/100 ml		Wet Magn	etic Partio (WMPT)	le Testing	362	0 Lux	SIGNATUR		·				
Original - Cl	ient Files		py - Area Office		QC/F	N/MPI/06	5 Rev.00	DATED 0	7 Nov 2021	1					1	





Client			HALLIBURT		IORO	Jun		ort No:			QC-24-05-TSS-NDT-0	ISPECTION		
Locatio		TSS WORKS		· · · ·	FST AREA			K ORDER	326589883					
Date			Fuesday, May					pection Date:	Tuesday, May 13, 2025					
Type Of Ins		VISUAL , THOROUGH EXA			PARTICLE INS	PECTION	-	ification:		ASTM E709 & A	ASTM E 1444 (2016) ASM			
							υ	NIT DESCRIPTI	ON:		2" BALON VA	ALVE 600		
								UNIT S/N:			6 FM	K		
			E				SI	SEPARATOR SAP NO: 11484041						
	2 .	1 5		0					N RESULT :					
								L , THOROUGH EX	AMINATION			ION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION		
	Contractor 20							NETIC PARTICLE II	NSPECTION	Avaliable critical areas inspected and found free from cracks and other defects				
	0							FINAL RESUL	L RESULTS THE ABOVE INSPECTED AREAS WAS A			AREAS WAS ACCEPTED		
						COMMENT: Magne		ction With A/G	' Hand Yoke , Black & V	Vhite Contrast				
		EQUIPME	NT DETAII	S			_	F	PERSON DE	TAILS		REVIEW BY		
Equipment:	AC-Yoke Test Blo	ock Equipment:	Digital Lux	Meter	Equipment	A	C/DC Yoke	INSPECTOR NA M.Shahzad Ah		anul Company	SENIOR INSPECTOR:	NAVEED HUSSAIN		
S.No:	1657	S.No:	272200	)3	S.No:	20	01504052				V.			
Cal Due Date:	12-Aug-24	Cal Due Date:	14-Aug-	24	Cal Due Date	: 1	2-Aug-24	QUALIFICAT		111 DUROL	SUPERVISOR:	HANI ALI		
Black Magnetic	Ink Manufacture	e: Magnaflux	aflux Batch No: 220605 Expiry Date:		JULY.2025	ASNT LEVE			SOT ERVISOR.					
Whie Contrast P	nint Manufacture: Magnaflux Batch No: 220602 Expiry Date:		JUN,2025	MT & PT & VT		Los Los Starting								
	Magnetic Partical Concentration Method WMPT Ligi		ght Intensity	STAMP &		Anginee	CLIENT:							
Technical Details:				36	20 Lux	SIGNATUR								
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 No														





C	ERTIFI	[CA	TION OF	VISU	JAl, T	HOR	OUGH	I EXAM	INATON	<b>₩ 1 &amp; 1</b>	IAGNETIC P.	ARTICLE IN	NSPECTION	
Client	:		Н	HALLIBUE	RTON (TSS	5)		Rep	ort No:			QC-24-05-TSS-NDT-0	17	
Locatio	on:		TSS WORKS	HOP & IN	SPECTION	TEST ARE	4	WOR	K ORDER	326589883				
Date:			1	Гuesday, М	lay 14, 202	4		Next Ins	pection Date:	Tuesday, May 13, 2025				
Type Of Insp	pection:	VISU	AL , THOROUGH EXA	MINATION	& MAGNET	TIC PARTICLE	INSPECTION	Speci	ification:		ASTM E709 & .	ASTM E 1444 (2016) ASM	E V Article 7 (2019)	
								υ	NIT DESCRIPTI	ON:		2" BALON V	ALVE 600	
									UNIT S/N:			9 FM	L	
			-					SI	SEPARATOR SAP NO: 11484041					
			15		0						N RESULT :			
									L , THOROUGH E)	AMINATIO			TION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION	
								MAG	NETIC PARTICLE I	NSPECTION	N	areas inspected acks and other defects		
	0	1							FINAL RESUL	rs	THE ABOVE INSPECTED AREAS WAS ACCEPTED			
								COMMENT: Magne		ction With	' n A/C Hand Yoke , Black & V	Vhite Contrast		
			EQUIPME	NT DETA	AILS				I	PERSON	DETAILS		REVIEW BY	
Equipment:	AC-Yoke Test E	Block	Equipment:	Digital I	ux Meter	Equipm	ent:	AC/DC Yoke	INSPECTOR NA M.Shahzad Ah		smul Company	SENIOR INSPECTOR:	NAVEED HUSSAIN	
S.No:	1657		S.No:	272	2003	S.No		201504052						
Cal Due Date:	12-Aug-24	4 Cal Due Date: 14-Aug-24 Cal Due Date: 11				12-Aug-24	QUALIFICAT		TADA OL	SUPERVISOR:	HANI ALI			
Black Magnetic	Ink Manufactu	ire:	Magnaflux	x Batch No: 220605 Expiry Date:		JULY.2025	ASNT LEVE			SULERVISOR:	HAW ALI			
Whie Contrast P	aint Manufactu	ıre:	Magnaflux Batch No: 220602 Expiry Date:		JUN,2025	MT & PT & VT		For Invineering						
Technical D	I	Magnet	tic Partical Concentr	ation	Met	thod	WMPT	Light Intensity	STAMP &		righter 1	CLIENT:		
r echnical D	etails:	1	1.2 to 2.4 ml/100 ml	w		Particle Testir APT)	g	3620 Lux	SIGNATUR	E:				
Original - Cl	ient Files	Coj	py - Area Office		QC/FN/M		.00 DATE	O 07 Nov 2021						





Clien			HALLIBURTO		iono			ort No:			QC-24-05-TSS-NDT-0	ISPECTION		
Locatio		TSS WORKS		× /	FST AREA			K ORDER	326589883					
Date			Fuesday, May		LOT MILL			pection Date:	Tuesday, May 13, 2025					
Type Of Ins		VISUAL , THOROUGH EXA			PARTICLE INS	PECTION	-	ification:		ASTM E709 & A	ASTM E 1444 (2016) ASM			
							υ	NIT DESCRIPTI	ON:		2" BALON VA	ALVE 600		
								UNIT S/N:			3 FM	X		
			E				SI	SEPARATOR SAP NO: 11484041						
	0	15		0						INSPECTION	N RESULT :			
									AMINATION			ION ( M.P.I. ) HAD BEEN DONEON THE IE ABOVE DESCRIPTION		
	· · · · · · · · · · · · · · · · · · ·							NETIC PARTICLE I	NSPECTION		Avaliable critical areas inspected and found free from cracks and other defects			
	0							FINAL RESULTS THE ABOVE INSPECTED A			AREAS WAS ACCEPTED			
							COMMENT: Magne		ction With A/	' C Hand Yoke , Black & W	Vhite Contrast			
		EQUIPME	NT DETAII	.S			_	F	PERSON DE	ETAILS		REVIEW BY		
Equipment:	AC-Yoke Test Blo	ck Equipment:	Digital Lux	Meter	Equipment	A	C/DC Yoke	INSPECTOR NA M.Shahzad Ah		Soul Company	SENIOR INSPECTOR:	NAVEED HUSSAIN		
S.No:	1657	S.No:	272200	)3	S.No:	2	01504052			THE THE	V.			
Cal Due Date:	12-Aug-24	Cal Due Date:	14-Aug-	24	Cal Due Date	: 1	2-Aug-24	QUALIFICAT		TA DA OL	SUPERVISOR:	HANI ALI		
Black Magnetic	Ink Manufacture	: Magnaflux	Batch No:220605Expiry Date:		JULY.2025	ASNT LEVE	л 🕅		SOT ERVISOR.					
Whie Contrast P	aint Manufacture	rfacture: Magnaflux Batch No: 220602 Expiry Date:		JUN,2025	MT & PT & VT		Los formations							
	Magnetic Partical Concentration Method WMPT Ligi		ight Intensity	STAMP &	1	Auginee	CLIENT:							
Technical Details: 1.2 to 2.4 ml/100 ml Wet Magnetic Particle Testing 362					520 Lux	SIGNATUR								
	Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 No													





C	ERTIFI	CATION OF	' VISU	Al, T	HORO	UGH	EXAM	INATON	<b>1 &amp; M</b>	AGNETIC P.	ARTICLE IN	NSPECTION		
Clien	t:		HALLIBUR	TON (TSS)	)		Rep	ort No:			QC-24-05-TSS-NDT-0	19		
Locatio	on:	TSS WORKS	HOP & INS	PECTION	TEST AREA		WOR	K ORDER	326589883					
Date	:		Tuesday, Ma	ay 14, 2024			Next Ins	pection Date:	Tuesday, May 13, 2025					
Type Of Ins	pection:	VISUAL , THOROUGH EX/	MINATION 8	& MAGNETI	C PARTICLE IN	SPECTION	Spec	ification:		ASTM E709 & A	ASTM E 1444 (2016) ASM	E V Article 7 (2019)		
							υ	NIT DESCRIPTI	ON:		2" BALON V	ALVE 600		
								UNIT S/N:			3 FM	L		
				-			SI	PARATOR SAP	NO:		114840	)41		
		1 5	A.	0						INSPECTION	N RESULT :			
	-						VISUA	L , THOROUGH EX	AMINATION			TION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION		
		- Mar	to)	Z	9		MAG	NETIC PARTICLE I	NSPECTION		Avaliable critical areas inspected and found free from cracks and other defects			
	0							FINAL RESUL	rs	т	HE ABOVE INSPECTED	AREAS WAS ACCEPTED		
							COMMENT: Magne		ction With A/	' /C Hand Yoke , Black & V	Vhite Contrast			
		EQUIPME	NT DETA	ILS				F	PERSON DI	ETAILS		REVIEW BY		
Equipment:	AC-Yoke Test Bl	ock <b>Equipment</b> :	Digital Lu	ıx Meter	Equipment	: AC,	/DC Yoke	INSPECTOR NA M.Shahzad Ah		Soul Company	SENIOR INSPECTOR:	NAVEED HUSSAIN		
S.No:	1657	S.No:	2722	2003	S.No:	20:	1504052	ini.Shunzuu mi		The second				
Cal Due Date:	12-Aug-24	-Aug-24 Cal Due Date: 14-Aug-24 Cal Due Date: 1					-Aug-24	QUALIFICAT		A Draot	SUPERVISOR:	HANI ALI		
Black Magnetic	: Ink Manufactu	nufacture:         Magnaflux         Batch No:         220605         Expiry Date:				ULY.2025	ASNT LEVE		Nº 20 Ta	SUPERVISOR:				
Whie Contrast F	Paint Manufacture:         Magnaflux         Batch No:         220602         Expiry Date:         Image: Comparison of the second				JUN,2025	MT & PT &		Lor Invineering	-					
	Magnetic Partical Concentration Method WMPT Lig		ht Intensity	STAMP &		Figure	CLIENT:							
Technical Details:         Wet Magnetic Particle Testing         3620           1.2 to 2.4 ml/100 ml         (WMPT)         3620					0 Lux	SIGNATUR	E:							
Original - C	lient Files	Copy - Area Office	1	QC/FN/MF		DATED 0	7 Nov 2021	ļ						





Clien		CATION OF	HALLIBURT		IIOKO	JGII	_			GIALIICI.	QC-24-05-TSS-NDT-0			
Locatio			SHOP & INSP	N 1	FECT ADEA		-	ort No: K ORDER	326589883					
Date			Tuesday, May		LESI AREA			pection Date:	Tuesday, May 13, 2025					
Type Of Ins	pection:	VISUAL , THOROUGH EX	AMINATION &	MAGNETIC	C PARTICLE INS	PECTION	Spec	ification:		ASTM E709 & .	ASTM E 1444 (2016) ASM	E V Article 7 (2019)		
							υ	NIT DESCRIPTI	ON:		2" BALON VA	ALVE 600		
								UNIT S/N:			2 FM	K		
			-	-			SI	SEPARATOR SAP NO: 11484041						
										INSPECTIO	N RESULT :			
			-				VISUA	L , THOROUGH EX	AMINATION			ION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION		
								NETIC PARTICLE I	NSPECTION		Avaliable critical areas inspected and found free from cracks and other defects			
	0							FINAL RESUL	rs	т	THE ABOVE INSPECTED AREAS WAS ACCEPTED			
							COMMENT: Magne		ction With A/C	Hand Yoke , Black & V	Vhite Contrast			
		EQUIPMI	ENT DETAI	LS			_	F	PERSON DE	ΓAILS		REVIEW BY		
Equipment:	AC-Yoke Test B	lock Equipment:	Digital Lux	Meter	Equipment	AC	C/DC Yoke	INSPECTOR NA M.Shahzad Ah		amul Company	SENIOR INSPECTOR:	NAVEED HUSSAIN		
S.No:	1657 <b>S.No:</b> 2722003 <b>S.No:</b> 20				01504052									
Cal Due Date:	12-Aug-24     Cal Due Date:     14-Aug-24     Cal Due Date:     12				2-Aug-24	QUALIFICAT		TADA OL	SUPERVISOR:	HANI ALI				
Black Magnetic	Magnetic Ink Manufacture:         Magnaflux         Batch No:         220605         Expiry Date:         JU		JULY.2025	ASNT LEVEL		5	SOI ERVISOR:							
Whie Contrast F	Contrast Paint Manufacture:         Magnaflux         Batch No:         220602         Expiry Date:         D		JUN,2025	MT & PT & VT										
	Magnetic Partical Concentration Method WMPT Ligi		ght Intensity	STAMP &	$\mathcal{A}$	Augmeet	CLIENT:							
Technical D	Technical Details:				20 Lux	SIGNATUR								
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 Nor					-									





C	ERTIFI	CATION OF	VISU	<b>A1, T</b> 1	HORO	UGH	EXAM	INATON	<b>8 M</b> /	AGNETIC P.	ARTICLE IN	NSPECTION		
Clien	t:	]	HALLIBURT	ON (TSS)			Rep	ort No:			QC-24-05-TSS-NDT-0	21		
Locatio	on:	TSS WORKS	HOP & INSP	ECTION T	TEST AREA		WOR	K ORDER	326589883					
Date	:		Fuesday, May	14, 2024			Next Insp	pection Date:		Tuesday, May 13, 2025				
Type Of Ins	pection:	VISUAL , THOROUGH EXA	MINATION &	MAGNETIC	C PARTICLE INS	PECTION	Speci	fication:		ASTM E709 & .	ASTM E 1444 (2016) ASM	E V Article 7 (2019)		
							υ	NIT DESCRIPTI	ON:		4" BALON VA	ALVE 600		
								UNIT S/N:			4 FM	S		
			-	-			SE	PARATOR SAP	NO:		114840	941		
										INSPECTIO	N RESULT :			
			-				VISUAI	, THOROUGH EX	AMINATION			TION ( M.P.I. ) HAD BEEN DONEON THE HE ABOVE DESCRIPTION		
								NETIC PARTICLE I	NSPECTION		Avaliable critical areas inspected and found free from cracks and other defects			
	0							FINAL RESULT	rs	т	HE ABOVE INSPECTED	AREAS WAS ACCEPTED		
							COMMENT: Magnet		tion With A/	' C Hand Yoke , Black & V	Vhite Contrast			
		EQUIPME	NT DETAII	LS				P	ERSON DE	TAILS		REVIEW BY		
Equipment:	AC-Yoke Test Bl	ock Equipment:	Digital Lux	Meter	Equipment	AC/	'DC Yoke	INSPECTOR NA M.Shahzad Ah		mul Company	SENIOR INSPECTOR:	NAVEED HUSSAIN		
S.No:	1657	S.No:	27220	03	S.No:	201	1504052	M.Shanzau An						
Cal Due Date:	12-Aug-24	12-Aug-24     Cal Due Date:     14-Aug-24     Cal Due Date:     12					-Aug-24	QUALIFICAT		and the ou	SUPERVISOR:	HANI ALI		
Black Magnetic	c Ink Manufacture: Magnaflux Batch No: 220605 Expiry Date: J		ULY.2025	ASNT LEVEI		Nº Te	SUPERVISOR:	HANI ALI						
Whie Contrast P	Ist Paint Manufacture: Magnaflux Batch No: 220602 Expiry Date:				JUN,2025	MT & PT & 1	VT	For Incineer 182						
The day of the	М	agnetic Partical Concent	ration	Meth	od	WMPT Lig	ht Intensity	sity STAMP &		Ligne	CLIENT:			
Technical D	Technical Details: 1.2 to 2.4 ml/100 ml (WMPT) 3620				0 Lux	SIGNATUR	E:							
Original - Cl	lient Files	Copy - Area Office	(	C/FN/MPI		DATED 07	7 Nov 2021					I		

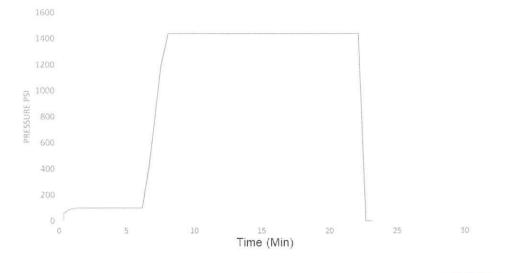


# Data Collection Report

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

Run Info	
Start Time	8:30 AM
Stop Time	8:53 AM
Test Date	14-May-24
EQ NUMBER	11484041
LAST CALIB	2.Aug.2023

#### READING



TESTED BY :	Ali Khalid
APPROVED BY:	Hassan Kamel
COMMENTS:	Body Test

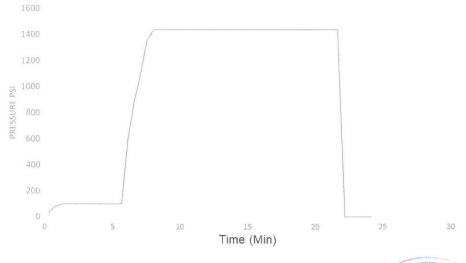


### Data Collection Report

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

Run Info	
Start Time	8:56 AM
Stop Time	9:19 AM
Test Date	14-May-24
EQ NUMBER	11484041
LAST CALIB	2.Aug.2023

#### READING



TESTED BY :	Ali Khalid
APPROVED BY:	Hassan Kamel
COMMENTS:	All valves has been tested



### Data Collection Report

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

Run Info	
Start Time	9:50 AM
Stop Time	10:13 AM
Test Date	14-May-24
EQ NUMBER	11484041
LAST CALIB	2.Aug.2023

READING

