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QUALITY CONTROL

INSPECTION CERTIFICATE FOR CIRCULATION SUB

Client Name:	**HALLIBURTON** (WPS)	Report No.:	HAL-24-06-MS-WPS-003
Acceptance criteria.	DS-1 Volume 4 Fifth Edition	Date of Inspection:	24.JUNE .2024
Work Location:	Burjesia Halliburton Camp Basra - Iraq	Halliburton Doc. (Visual Procedure D00305796 Revision V)	
Halliburton Doc. (Dimensional Procedure D00301932 Revision L)		Halliburton Doc. (MPI Procedure D00976850 Revision D)	
TEST EQUIPMENT & CONSUMABLE DETAILS			
WHITE CONTRAST WCP-2	Batch #: 220602 Manufacture: Magnaflux Exp Date: JUN,2025	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#.220605 Manufacture: Magnaflux Exp Date: JULY.2025	COIL(1200 AMP-TURNS/IN	SR#22650 Cal.16.APR.2024 Cal Due 15.OCT.2024
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2025	A.C HAND YOKE	SR#201504052 Cal.15.APR.2024 Cal Due 14.OCT.2024
INTENSITY METER	SR#R.043943 Cal.17.APR.2024 Cal Due 16.OCT.2024	UV BLACK LIGHT	SR#1898977 Cal.15.APR.2024 Cal Due 14.OCT.2024
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal.17.APR.2024 Cal Due 16.OCT.2024	THREAD PROFILE GAGE	SR#21336 CAL.Date.17.APR.2024 Cal Due 16.OCT.2024 SR#21335 CAL.Date.17.APR.2024 Cal Due 16.OCT.2024
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	UV LIGHT INTENSITY:	2938 µw/cm²
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity:	3620 Lux
MAGNITISUM DIRECTION (LONGITUDENAL)			
METHODOLOGY:	• Through Visual inspection • Dimensional Inspection	•MPI inspection with Ultraviolet light	

Serial No.	*Description*	*Connection*		*Result Inspection*			*Dimensional 3 Inspection*											
							Pin					*Box*						*Body*
		Pin	*Box*	*Pin*	*Box*	*Body*	*OD(In)*	*ID(In)*	*Neck ϖ(In)*	*Pin λ(In)*	*Bevel ϕ(In)*	*OD(In)*	*CB ϕ(In)*	*CB δ(In)*	*BB ϕ(In)*	*BB δ(In)*	*Bevel ϕ(In)*	*Overall λ (IN)*
CM276-100 PO-3513	**CIRCULATION SUB**	**4 1/2 IF**	**4 1/2 IF**	**Acc.**	**Acc.**	**Acc.**	**6 1/2''**	**2 1/4''**	**3/8"**	**4 7/16"**	**6 5/16''**	**6 1/2''**	**5 10/32"**	**5/8"**	**-**	**-**	**6 5 /16"**	**19 5/8''**

Conclusion:	■ 01 Circulation Sub was found "Acceptable" At time of Inspection Ready For Use.

Abbreviations :

OD	*Outside Diameter*	**ID**	*Inside Diameter*	**SRG**	*Stress Relief Groove*	**CB**	*Counter Bore*	**BB**	*Bore Back*	**FB**	*Float Bore*
Φ	*Diameter*	**λ**	*Length*	**ϖ**	*Width*	**δ**	*Depth*	***NP.***	*Not Present*	***NA.***	*Not Applicable*
EGR	*Elevator Groove Recess*	**SGR**	*Slip Groove Recess*	**CR**	*Crack*	**B**	*Bent*	**PC**	*Premium Class*	**RF**	*Reface*
GT	*Galled Thread*	**TP**	*Thread Pitting*	**SP**	*Seal Pitting*	**TD**	*Thread Damage*	**SD**	*Seal Damage*	**M**	*Mashed*
1	*100 % Coating*	**2**	*99-71 % Coating*	**3**	*70-40 % Coating*	**4**	*Up to 40 %*	**5**	*Nil*	**WT**	*Wall Thickness*
Colors Code:		***White***	**No Defects**	*Red*	**Crack or Extreme Damage.**	**Blue**	**Damage**	**Green**	**Seal Damage**	**Yellow**	**ACFM**

Inspector	M.Shahzad Ahmed	**Review By**						
Qualification:	ASNT Level II (MT, PT, VT)	**Senior Inspector:**	NAVEED HUSSAIN	**Supervisor:**	Hani Ali	**Customer Name:**	ALI Talib HB48903 Date: 24-06-2024	
Signature:						**Customer Signature:**	Signature Haliburton	

Original - Client Files Copy - Area Office QC/FN/FLS/03 Rev.00 Dated: 07 Nov 2021