



## INSPECTION CERTIFICATE FOR CIRCULATION SUB

Client Name:	<b>HALLIBURTON (HPS)</b>	Certificate No.:	HALL-24-08-RS-HPS-087
Acceptance criteria:	DS-1 Volume 4 Fifth Edition	Date of Inspection:	13.AUG.2024
Work Location:	Burjesia Halliburton Camp Basra - Iraq	Halliburton Doc. (Visual Procedure D00305796 Revision <b>W</b> )	
Halliburton Doc. (Dimensional Procedure D00301932 Revision <b>L</b> )		Halliburton Doc. (MPI Procedure D00976850 Revision <b>D</b> )	

### TEST EQUIPMENT & CONSUMABLE DETAILS

Equipment Name	Batch # / Manufacture / Exp Date	Technical Details	Status / Calibration
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	RC2-060120151 CAL.16.APR.2024 Cal Due 15.OCT.2024
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2025	A.C HAND YOKE	21332 CAL.15.APR.2024 Cal Due 14.OCT.2024
INTENSITY METER	SR#1608000134 CAL.Date 17.APR.2024 Cal Due 16.OCT.2024	UV BLACK LIGHT	SR#52852 CAL.15.APR.2024 Cal Due 14.OCT.2024
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 CAL.Date 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:	3180 µw/cm²
magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity	3650 Lux

### MAGNITISUM DIRECTION (LONGITUDENAL)

METHODODOGY:	<ul style="list-style-type: none"> <li>• Through Visual inspection</li> <li>• Dimensional Inspection</li> </ul>	<ul style="list-style-type: none"> <li>•MPI inspection with Ultraviolet light</li> </ul>
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Serial No.	Description	Connection		Result Inspection			Dimensional Inspection												
		Pin	Box	Pin	Box	Body	Pin					Box					Body		
							OD(In)	ID(In)	Neck $\varpi$ (In)	Pin $\lambda$ (In)	Bevel $\phi$ (In)	OD(In)	CB $\phi$ (In)	CB $\delta$ (In)	BB $\phi$ (In)	BB $\delta$ (In)	Bevel $\phi$ (In)	Body ID(In)	Overall $\lambda$ (In)
HAH-17097-3	CIRCULATION SUB	3 1/2 IF	2" 1502 FIG	Acc.	Acc.	Acc.	4 7/8"	1 1/4"	3/8"	4"	4 9/16"	-	-	-	-	-	-	-	12"



Conclusion:	<ul style="list-style-type: none"> <li>■ 01 Circulation Sub was found "Acceptable" At time of Inspection Ready For Use.</li> </ul>
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**Abbreviations :**

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

Inspector Name:	RAO SOHAIL	Review By			
Qualification:	ASNT Level II (MT, PT)	Senior Inspector:	NAVEED HUSSAIN	Supervisor:	Hani Ali
Signature:					

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

