

**AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED**

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**INSPECTION CERTIFICATE FOR PUP JOINT S.N#HCT-PJ-16**

<b>Client Name:</b>	HALLIBURTON (HCT)	<b>Report No.:</b>	HAL-24-01-MS-HCT-2062
<b>Acceptance criteria:</b>	DS-1 Volume 3 Fifth Edition	<b>Date of Inspection:</b>	07.JAN.2024
<b>Refrance Standard HCT</b>	ASTM E 709 REV NO.15/ CLIENT SPECS WM-GL- HAL- REV NO.6.6	Halliburton Doc. (Visual Procedure D00305796 Revision U)	
Halliburton Doc. (Dimensional Procedure D00301932 Revision L)		Halliburton Doc. (MPI Procedure D00976850 Revision D)	

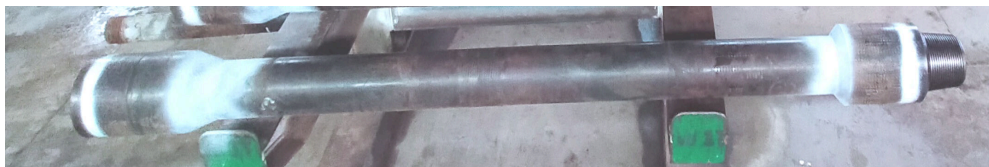
**TEST EQUIPMENT & CONSUMABLE DETAILS**

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. 15.AUG.2023 Cal Due 14.FEB.2024
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2025	A.C HAND YOKE	SR#201504048 Cal 15.AUG.2023 Cal Due 14.FEB.2024
INTENSITY METER	SR#R.043943 Cal.15.AUG.2023 Cal Due 14.FEB.2024	UV BLACK LIGHT	SR#1932401 Cal. 15.AUG.2023 Cal Due 14.FEB.2024
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 CAL.Date. 15.AUG.2023 CAL Due Date 14.FEB.2024	THREAD PROFILE GAGE	SR#21336 CAL.Date.15. AUG. 2023 CAL Due Date.14. FEB. 2024 SR#21335 CAL.Date.17. AUG.2023 CAL Due Date. 16.FEB.2024
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	UV LIGHT INTENSITY:	2938 μw/cm <sup>2</sup>
magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity:	3620 Lux

**MAGNITISUM DIRECTION (LONGITUDENAL)**

<b>METHODOLOGY:</b>	<ul style="list-style-type: none"> <li>Through Visual inspection</li> <li>Dimensional 3</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 ϕ(In)	Pin λ(In)	Bevel ϕ(In)	OD(In)	CB ϕ(In)	CB δ(In)	BB ϕ(In)	BB δ(In)	Bevel ϕ(In)	Pin λ(In)	Box λ(In)	Overall λ(In)
HCT-PJ-16	5" PUP JOINT	4 1/2 IF	4 1/2 IF	Acc.	Acc.	Acc.	7"	3 1/4"	12/32"	4 1/2"	6 2/32"	7"	5 10/32"	5/8"	-	-	6 2/32"	8 3/8"	10 1/2"	91 5/8"



**Conclusion:** ■ 01 PUP JOINT was found "Acceptable". At time of Inspection Ready For Use.

**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>ϕ</b> Diameter	<b>λ</b> Length	<b>ϖ</b> Width	<b>δ</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>	<b>No Defects</b>	<b>Red</b>	<b>Crack or Extreme Damage.</b>	<b>Blue</b>	<b>Damage</b>
				<b>Green</b>	<b>Seal Damage</b>
				<b>Yellow</b>	<b>ACFM</b>

<b>Inspector Name:</b>	M. Sh. Alhameed	<b>Review By</b>			
<b>Qualification:</b>	ASNT Level 3	<b>Senior Inspector:</b>	NAVEED HUSSAIN	<b>Supervisor:</b>	Hani Ali
<b>Signature:</b>					
					<b>Customer Signature:</b>

Original - Client Files

Copy - Area Office

QC/FN/FLS/03 Rev.00

Dated: 07 Nov 2021

