

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

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**INSPECTION CERTIFICATE FOR LIFTING SUB**

<b>Client Name:</b>	HALLIBURTON (TSS)	Report No.:	HAL-24-02-MS-TSS-127
Acceptance criteria.	DS-1, Volume 4 Fifth Edition	Date of Inspection:	10.February.2024
<b>Work Location:</b>	Burjesia Halliburton Camp Basra - Iraq	Next Date of Inspection:	<b>09.August.2024</b>
Halliburton Doc. (Visual Procedure D00305796 Revision <b>U</b> )		Halliburton Doc. (MPI Procedure D00976850 Revision <b>D</b> )	
<b>TEST EQUIPMENT &amp; CONSUMABLE DETAILS</b>			
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:	3038 µw/cm <sup>2</sup>
Magnetic particle concentration fluorescent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity:	3520 Lux
<b>MAGNITISUM DIRECTION (LONGITUDENAL)</b>			
METHODOLOGY:	<ul style="list-style-type: none"> <li>Through Visual inspection</li> <li>Dimensional</li> </ul>		
	<ul style="list-style-type: none"> <li>MPI inspection with Ultraviolet light</li> </ul>		

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 T λ(In)	Box T λ(In)	Overall λ (In)
IB-02	LIFTING SUB	3 7/8 CAS	3 7/8 CAS	Acc.	Acc.	Acc.	5"	2 1/4"	-	-	-	5"	-	-	-	-	-	6 1/4"	8 1/8"	67 1/8"



**Conclusion:** 01 LIFTING SUB was found "Acceptable". At time of Inspection Ready For Use.

OD	Outside Diameter	ID	Inside Diameter	SRG	Stress Relief Groove	CB	Counter Bore	BB	Bore Back	FB	Float Bore
∅	Diameter	∅	Length	∅	Width	∅	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
<b>Colors Code:</b>		White	No Defects	Red	Crack or Extreme Damage.	Blue	Damage	Green	Seal Damage	Yellow	ACFM

<b>Inspector Name:</b>	M.Shahzad Ahmed	<b>Review By</b>			
<b>Qualification:</b>	ASNT Level II	<b>Senior Inspector:</b>	Naveed Hussain	<b>Supervisor:</b>	Hani Ali
<b>Signature:</b>			<b>Customer Name:</b>		
					<b>Customer Signature:</b>

Original - Client Files

Copy - Area Office

QC/FN/DJ-PB/029

Rev.00 dated 07.Nov2021

