

AI TAKAMUL COMPANY FOR ENGINEERING TEST AND PROFESSIONAL SAFETY LIMITED

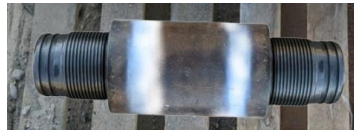
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INSPECTION CERTIFICATE FOR X-OVER

Client Name:	<b>HALLIBURTON (TSS)</b>	Report No.:	HAL-24-12-NDT-TSS-139
Acceptance criteria.	DS-1 Volume 4 Fifth Edition	Date of Inspection:	11.DEC.2024
Refrance Standard TSS	ST-GL-HAL-TT-510 REV NO 5.1	Next Inspection Date:	<b>10-JUNE-2025</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.13.OCT.2024 Cal Due 12.APR.2025
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2025	A.C HAND YOKE	SR#201504052 Cal.12.OCT.2024 Cal Due 11.APR.2025
INTENSITY METER	SR#R.043943 Cal.14.OCT.2024 Cal Due 13.APR.2025	UV BLACK LIGHT	SR#1898977 Cal.12.OCT.2024 Cal Due 11.APR.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal.14.OCT.2024 Cal Due 13.APR.2025	THREAD PROFILE GAGE	SR#21336 Cal.14.OCT.2024 Cal Due 13.APR.2025 SR#21335 Cal.14.OCT.2024 Cal Due 13.APR.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	UV LIGHT INTENSITY:	3360 μw/cm <sup>2</sup>
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity:	3640 Lux
<b>MAGNITISUM DIRECTION (LONGITUDENAL)</b>			
METHODOLOGY:	<ul style="list-style-type: none"> <li>Through Visual inspection</li> <li>Dimensional Inspection</li> </ul>		
	•MPI inspection with Ultraviolet light		

Serial No.	Description	Connection		Result Inspection			Dimensional Inspection												
		Pin		Pin			Pin					Body							
		Pin	Pin	Pin	Pin	Body	OD(In)	ID(In)	Neck ϕ(In)	Pin λ(In)	Bevel ϕ(In)	OD(In)	ID(In)	Neck ϕ(In)	Pin λ(In)	Bevel ϕ(In)	Pin T λ(In)	Box T λ(In)	Overall λ (In)
WO 11903	X-OVER	5 1/2 ACME	5 1/2 ACME	Acc.	Acc.	Acc.	7 1/2"	3 1/16"	-	-	7 7/16"	7 1/2"	3 1/16"	-	-	7 7/16"	-	-	11 1/8"



**Conclusion:** 01 X-OVER 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 Name:	M.Shahzad Ahmed	Review By				
Qualification:	ASNT Level II (MT, PT, VT)	Senior Inspector:	NAVEED HUSSAIN	Supervisor:	Hani Ali	Customer Name:
Signature:						Customer Signature:
Original - Client Files		Copy - Area Office		QC/FN/FLS/03 Rev.00	Dated: 07 Nov 2021	

