Al TAKAMUL COMPANY FOR ENGINEERING TEST AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq
Tel: +9647810009138 / +9647834964657

DEFECTIVE INSPECTION CERTIFICATE FOR X-OVER

Client Name:	**HALLIBURTON** (CPM)	Report No.:	HAL-24-09-CPM-001
Acceptance criteria.	DS-1 Volume 3 Fifth Edition & API 5A5, API 5CT 10th Edition	Date of Inspection:	22.SEP.2024
Work Location:	Burjesia Halliburton Camp Basra - Iraq	Halliburton Doc. (Visual Procedure D00305796 Revision W)	
Halliburton Doc. (Cold work Procedure D00685901 Revision X)	Halliburton Doc. (Dimensional Procedure D00301932 Revision M)	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:	3230 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 Inspection*											
							Pin				*Box*						*Body*	
		Pin	*Box*	*Pin*	*Box*	*Body*	*OD(In)*	*ID(In)*	*Body ID(In)*	*Bevel ϕ(In)*	*OD(In)*	*CB ϕ(In)*	*CB δ(In)*	*BB ϕ(In)*	*BB δ(In)*	*Bevel ϕ(In)*	*Box T λ(In)*	*Overall λ (IN)*
WO#36549-1	X-OVER	4 ½ VAM TOP	4 ½ IF	Seal Damage	Acc.	Acc.	4 3/4"	3 15/16"	3"	-	6 1/2''	5 5/16''	5/8''	-	-	6 5/16''	9 7/16''	18"
Conclusion:	■ 01 X-OVER was found Un-Acceptable Seal Damage From Pin Connection Rejected.																	

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:	RAO SOHAIL	**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

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DEFECTIVE PHOTOS INSPECTION REPORT

S.NO: WO#36549-1

X-OVER was found Un-Acceptable Seal Damage From Pin Connection Rejected.