

# AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

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## INSPECTION CERTIFICATE MAGNETIC PARTICLE OF TUBING X-OVER#MJS19051517

<b>Client Name:</b>	ZHONGMAN PETROLEUM ENGINEERING TECHNOLOGY(HONG KONG) CO LIMITED IRAQ	<b>Report No.:</b>	ZPEC-16-QC-24-08-RS-034
<b>Acceptance Createra.</b>	DS-1 Fifth Edition, Volume 3& DS-1 Fifth Edition, Volume 3 &5A5 5CT 10 <sup>th</sup> Edition	<b>Date of Inspection:</b>	07.AUG.2024
<b>Work Location:</b>	PO-64	<b>Rig No.:</b>	ZPEC-16
<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	SC 22713 Cal.15.FEB.2024 Cal Due14.AUG.2024
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2025	A.C HAND YOKE	201504053 Cal.15.FEB.2024 Cal Due14.AUG.2024
INTENSITY METER	SR#1608000134 CAL.Date Cal. 15.FEB.2024 Cal Due 14.AUG.2024	UV BLACK LIGHT	SR#1900084 Cal.15.FEB.2024 Cal Due14.AUG.2024
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal. 13.FEB.2024 Cal Due 12.AUG.2024	THREAD PROFILE GAGE	SR#21336 Cal. 13.FEB.2024 Cal Due 12.AUG.2024 SR#21335 Cal. 15.FEB.2024 Cal Due 14.AUG.2024
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	WMPT Light Intensity	3500 Lux
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	UV LIGHT INTENSITY:	3050 μw/cm <sup>2</sup>
Magnetism Direction (Longitudinal)			
<b>METHODOLOGY:</b>	<ul style="list-style-type: none"> <li>• Through Visual inspection</li> <li>• MPI inspection with Ultraviolet light</li> <li>• Dimensional</li> </ul>		

Serial No.	Description	Connection		Result Inspection			Dimensional- Inspection															
		Pin	Box	Pin	Box	Body	Pin					Box					Body					
							OD(In)	ID(In)	NECK (In)	Pin (In)	Bevel (In)	OD(In)	CB (In)	CB (In)	BBB (In)	BBL (In)	Bevel (In)	Tongspace (In)	Box Lch (In)	Overall (In)		
MJS19051517	TUBING X-OVER	NC50	4 1/2" VAM TOP	Acc.	Acc.	Acc.	6 1/2"	2 3/4"	3/8"	4 7/16"	6 5/16"	4 1/2"	-	-	-	-	-	-	-	-	-	11 1/4"
<b>Conclusion :</b>		*01 X-OVER above was found "Acceptable". At the time of Inspection (Ready for Use).																				

<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	
⊠ Diameter	⊠ Length	⊠ Width	⊠ 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	<b>Blue</b> Damage	<b>Green</b> Seal Damage	<b>Yellow</b> ACFM

<b>Inspector Name:</b>	<b>Review By</b>				
<b>Qualification:</b>	<b>Senior Inspector:</b>	M.USMAN	<b>Supervisor:</b>	M.SARWAR	<b>Customer Name:</b>
<b>Signature:</b>					<b>Customer Signature:</b>
Original - Client Files		Copy - Area Office		QC/FN/DJ-PB/029 Rev.00 dated 07.Nov2021	

