

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

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**INSPECTION CERTIFICATE MAGNETIC PARTICLE OF LIFTING SUBS**

<b>Client Name:</b>	ZHONGMAN PETROLEUM ENGINEERING TECHNOLOGY(HONG KONG) CO LIMITED IRAQ	<b>Report No.:</b>	ZPEC-16-QC-24-08-RS-030
<b>Acceptance Createra.</b>	DS-1 Fifth Edition, Volume 3	<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 Due 14.AUG.2024
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2025	A.C HAND YOKE	201504053 Cal.15.FEB.2024 Cal Due 14.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 Due 14.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>• Dimensional</li> <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 (In)	Pin (In)	Bevel (In)	OD(In)	CB (In)	CB (In)	BBB (In)	BBL (In)	Bevel (In)	Tongspac e (In)	Box Lth (In)	Overall (In)
MJS2401016	LIFTING SUB	7 5/8"Reg	5 1/2"FH	Acc.	Acc.	Acc.	9"	2 7/8"	3/8"	5 1/4"	8 13/16"	7 1/8"	5 29/32"	5/8"	-	-	6 3/4"	11 7/8"	9 3/4"	42 1/4"
MJS2401017	LIFTING SUB	7 5/8"Reg	5 1/2"FH	Acc.	Acc.	Acc.	9"	2 7/8"	3/8"	5 1/4"	8 13/16"	7 1/8"	5 29/32"	5/8"	-	-	6 3/4"	12"	9 3/4"	42 1/8"
<b>Conclusion :</b>		<b>*02 LIFTING SUB above was found "Acceptable". At the time of Inspection (Ready for Use).</b>																		

<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>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>Qualifica:</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		

