

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

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ULTRASONIC FLAW DETECTION & MAGNETIC PARTICLE INSPECTION CERTIFICATE OF X-OVER

Client Name:	ZHONGMAN PETROLEUM ENGINEERING TECHNOLOGY(HONG KONG) CO LIMITED IRAQ	Report No.:	ZPEC-16-QC-24-08-RS-019
Acceptance Creater:	DS-1 Fifth Edition, Volume 3 CAT 5-3	Date of Inspection:	07.AUG.2024
Work Location:	PO-64	RIG NAME:	ZPEC-16
TEST EQUIPMENT & CONSUMABLE DETAILS			
EQ. Manufacturer/ Model:	Sonatest/ D-50	EQ. Serial No:	I017374
Calibration Due Date:	15.OCT.2024	Couplant:	UT Gel
Calibration Block Type:	V1 (SR # 506233)	Calibration Due Date:	15.OCT.2024
Transducer Angle:	90 DEG, 60 DEG, 45 DEG	Transducer Frequency:	4 MHz/ SR. 13737
Range:	100 mm	Reference dB:	42 dB
Area Scanned:	Connections	Material Velocity:	3250 m/s, 5900 m/s
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 Particle Fluorescent 14HF Concentration:	0.1 To 0.4 ML / 100 ML	WMPT Light Intensity:	3500 LUX
Methodology:	<ul style="list-style-type: none"> Through Visual inspection Dimensional 3 UltraSonic Flaw Detection MPI inspection with Ultraviolet Light 		

Serial No.	Description	Connection		Result Inspection			Dimensional-3 Inspection														
		Pin	Box	Pin	Box	Body	Pin					Box					Body				
							OD(In)	ID(In)	SRG φ(In)	SRG ∅(In)	Pin λ(In)	Bevel φ(In)	OD(In)	CB φ(In)	CB δ(In)	BBD φ(In)	BBL δ(In)	Bevel φ(In)	Tongspac e (In)λ	Box Lth (In)λ	Overall λ(In)
MJS2308 2250	X-OVER	6 5/8"Reg	5 1/2"FH	Acc.	Acc.	Acc.	8"	2 7/8"	5 3/8"	7/8"	4 15/16"	7 1/2"	8"	5 29/32"	5/8"	5 7/64"	8 1/2"	6 3/4"	-	-	48"
Conclusion :		*01 X-Over above was found "Acceptable". At the 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
φ Diameter	λ Length	∅ 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	Blue Damage	Green Seal Damage	Yellow ACFM

Inspector Name:	RAO SOHAIL	Review By			
Qualification:	ASNT Level II NMT, PNCT	Senior Inspector:	M.USMAN	Supervisor:	M.SARWAR
Signature:				Customer Name:	
				Customer Signature:	
Original - Client Files		Copy - Area Office		QC/FN/DJ-PB/029 Rev.00 dated 07.Nov2021	

