

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

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ULTRASONIC FLAW DETECTION CERTIFICATE OF BIT SUB INSPECTION

Client Name:	ZHONGMAN PETROLEUM AND NATURAL GAS GROUP CROP.LTD	Report No.:	ZPEC-25-QC-24-05-RS-023
Acceptance Creater:	DS-1 Fifth Edition, Volume 3	Date of Inspection:	02.MAY.2024
Work Location:	RU-612	RIG NAME:	ZPEC 25
TEST EQUIPMENT & CONSUMABLE DETAILS			
EQ. Manufacturer/ Model:	Sonatest/ D-50	EQ. Serial No:	I017374
Calibration Due Date:	15.AUG.2024	Couplant:	UT Gel
Calibration Block Type:	V1 (SR # 506233)	Calibration Due Date:	15.AUG.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 #: 180301 Manufacture: Magnaflux Exp Date: 2024	Technical Details	Wet Visible Continuous
Black Ink 7HF	Batch #: 171001 Manufacture: Magnaflux Exp Date: 2024	Coil 1200 Amp-Turns/in	SC 22713 Cal.14.FEB.2024 Cal Due15.AUG.2024
Fluorescent 14HF	Batch #: 180303 Manufacture: Magnaflux Exp Date: 2024	A.C Hand Yoke	201504053 Cal.14.FEB.2024 Cal Due15.AUG.2024
Intensity Meter	SR# R.043943 Cal.14.FEB.2024 Cal Due 15.AUG.2024	UV Black Light	SR#1900084 Cal.14.FEB.2024 Cal Due15.AUG.2024
LEAD GAGE	S SR#AH07KF0027 GAEMAKER LG-5003 CAL.Date. 14.FEB.2024 CAL Due Date 15.AUG.2024	THREAD PROFILE GAGE	SR#21336 CAL.Date.14. FEB. 2024 CAL Due Date.15. AUG. 2024 SR#21335 CAL.Date.14. FEB.2024 CAL Due Date. 15.AUG.2024
Magnetic Particle Fluorescent 14HF Concentration:	0.1 To 0.4 ML / 100 ML	WMPT Light Intensity:	3500 Lux
Methodology:	- Through Visual inspection - Dimensional 3 - UltraSonic Flaw Detection - MPI inspection with Ultraviolet Light		

Serial No.	Description	Connections		Inspection Results		Dimensional 3 Inspection													
		Box		Box		Box		Box		Box		Box		Box		Box		Box	
		Box	Box	Box	Box	Box	Box	Box	Box	Box	Box	Box	Box	Box	Box	Box	Box	Box	Box
4P418	BIT SUB	7 5/8" REG	7 5/8" REG	Acc.	Acc.	Acc.	9"	7 1/16"	5/8"	4 13/16"	17 1/4"	8 3/4"	9"	7 1/16"	5/8"	5 7/8"	8 5/8"	8 7/8"	-
MJS2206922	BIT SUB	7 5/8" REG	7 5/8" REG	Acc.	Acc.	Acc.	9 1/2"	7 1/16"	5/8"	4 13/16"	17 1/4"	8 3/4"	9 1/2"	7 1/16"	5/8"	5 7/8"	9"	8 7/8"	-
MJS14674	BIT SUB	7 5/8" REG	7 5/8" REG	Acc.	Acc.	Acc.	9 1/2"	7 1/16"	5/8"	4 13/16"	17 1/4"	8 5/8"	9 1/2"	7 1/16"	5/8"	5 7/8"	9"	8 7/8"	-

Conclusion :

03 - The Above Mentioned Bit .Sub were found "Acceptable" At the time of Inspection.

Abbreviations :

OD	Outside Diameter	ID	Inside Diameter	SRG	Stress Relief Groove	CB	Counter Bore	BB	Bore Back	FB	Float Bore
Φ	Diameter	λ	Length	W	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	ACFM	Green	Field Repair	Yellow	Damage

Inspector Name:	Review By	
Qualification:	Senior Inspector:	M.FAHAD
Signature:	Supervisor:	WAQAS AWAN
Customer Name:		
Customer Signature:		
Original - Client Files		

