

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

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ULTRASONIC FLAW DETECTION & MAGNETIC PARTICLE INSPECTION CERTIFICATE OF 5 1/2" HWDP

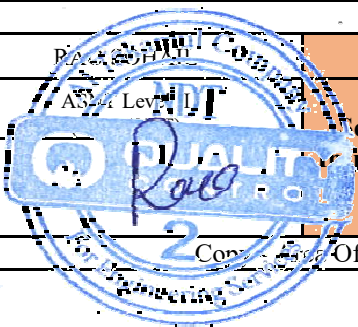
Client Name:	ZHONGMAN PETROLEUM ENGINEERING TECHNOLOGY(HONG KONG) CO LIMITED IRAQ	Report No.:	ZPEC-16-QC-24-08-RS-002
Acceptance criteria:	DS-1 Fifth Edition, Volume 3 CAT 3-5	Date of Inspection:	06.AUG.2024
Work Location:	PO-64	Rig Name:	ZPEC-16
TEST EQUIPMENT & CONSUMABLE DETAILS			
EQ. Manufacturer/ 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:	3450 LUX
Methodology:	<ul style="list-style-type: none"> Through Visual inspection Dimensional 3 UltraSonic Flaw Detection MPI inspection with Ultraviolet Light 		
CONNECTION	5 1/2" FH	SIZE	5 1/2"

Serial No.	Visual Inspection				Black Light		Dimensional 3 Inspection																
	Pin	Box	Body	HB	Pin	Box	Pin					Box					Body						
							OD (in)	ID (in)	SRG ϕ (in)	SRG λ (in)	Bevel ϕ (in)	pinλ (in)	OD (in)	CB ϕ (in)	CB δ (in)	BB ϕ (in)	BB δ (in)	Bevel ϕ (in)	Seal w	Pin Tong λ (in)	Box Tong λ (in)	Center Pad ϕ (in)	
2207503	Acc	Acc	Acc	√	Acc	Acc	7 1/4"	3 1/4"	5 7/32"	1"	6 3/4"	5"	7 1/4"	5 29/32"	5/8"	5 7/64"	8 1/4"	6 3/4"	16/32"	18 1/4"	16 7/8"	6"	
2207498	Acc	Acc	Acc	√	Acc	Acc	7 1/4"	3 1/4"	5 7/32"	1"	6 3/4"	5"	7 1/4"	5 29/32"	5/8"	5 7/64"	8 3/8"	6 3/4"	16/32"	18 1/8"	16 7/8"	6"	
2305946	Acc	Acc	Acc	√	Acc	Acc	7 1/4"	3 1/4"	5 7/32"	1"	6 3/4"	5"	7 1/4"	5 29/32"	5/8"	5 7/64"	8 3/8"	6 3/4"	16/32"	18 1/8"	17"	6"	
2207499	Acc	Acc	Acc	√	Acc	Acc	7 1/4"	3 1/4"	5 7/32"	1"	6 3/4"	5"	7 1/4"	5 29/32"	5/8"	5 7/64"	8 1/2"	6 3/4"	16/32"	18 1/4"	16 1/4"	6"	
2207506	Acc	Acc	Acc	√	Acc	Acc	7 1/4"	3 1/4"	5 7/32"	1"	6 3/4"	5"	7 1/4"	5 29/32"	5/8"	5 7/64"	8 1/8"	6 3/4"	16/32"	18 1/4"	17 1/8"	6"	

Conclusion: The Above Mentioned 5 1/2" Heavy Weight Drill Pipe was Found Acceptable from at time of Inspection ready to use.

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:	Senior Inspector: M.USMAN			Review By		
Qualification:	Supervisor: M.SARWAR			Customer Name:		
Signature:				Customer Signature:		
Original - Client Files Office QC/FN/AF,REP/026 Rev.00 Dated 01 AUG 2021						

