

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

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CERTIFICATE OF INSPECTION FOR 5 1/2" HWDP

Client Name:	ZHONGMAN PETROLEUM ENGINEERING TECHNOLOGY (HONG KONG) CO LIMITED IRAQ	Report No.:	QC-24-06-NA-003
Acceptance Creater:	DS-1 Fifth Edition, Volume 3 CAT 3-5	Date of Inspection:	27.JUN.2024
Work Location:	ZB-615	Rig No.:	ZPEC-27
Test Equipment & Consumable Details			
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	22713 Cal.15.FEB.2024 Cal Due14.OCT.2024
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2025	A.C HAND YOKE	PY-10 Cal.15.FEB.2024 Cal Due14.OCT.2024
INTENSITY METER	SR#1608000134 CAL.Date Cal. 15.FEB.2024 Cal Due 14.AUG.2024	UV BLACK LIGHT	SR#1946875 Cal.15.FEB.2024 Cal Due14.OCT.2024
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal. Cal.15.FEB.2024 Cal Due14.OCT.2024	THREAD PROFILE GAGE	SR#21336 Cal. Cal.15.FEB.2024 Cal Due14.OCT.2024 SR#21335 Cal. Cal.15.FEB.2024 Cal Due14.OCT.2024
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	WMPT Light Intensity	3520 Lux
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	UV LIGHT INTENSITY:	2950 μw/cm ²
Magnetism Direction (Longitudinal)			
METHODOLOGY:	Through Visual inspection • Dimensional	•MPI inspection with Ultraviolet light Heat Checking Thread Profile Gauging.	
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 □ (in)	SRG W □ (in)	Bevel φ (in)	pinλ (in)	OD (in)	CB φ (in)	CB δ (in)	BB φ (in)	BB δ (in)	Bevel φ (in)	Seal ∅	Pin Tong λ (in)	Box Tong λ (in)	Center Pin φ (in)
19P1219	Acc	NO BB	Acc	√	Acc	Acc	7"	3 5/16"	5 7/32"	1"	6 3/4"	5"	7"	5 15/16"	5/8"	-	-	6 3/4"	13/32"	18 1/8"	17 1/2"	6"
11P220	Acc	NO BB	Acc	√	Acc	Acc	7"	3 5/16"	5 7/32"	3/4"	6 3/4"	5"	7"	5 15/16"	5/8"	-	-	6 3/4"	13/32"	18 1/2"	17 1/8"	6"
20P1219	Acc	NO BB	Acc	√	Acc	Acc	7"	3 5/16"	5 7/32"	7/8"	6 3/4"	5"	7"	5 15/16"	5/8"	-	-	6 3/4"	13/32"	14"	17 1/4"	6"
2P721	Acc	NO BB	Acc	√	Acc	Acc	7 1/8"	3 5/16"	5 7/32"	3/4"	6 3/4"	5"	7 1/8"	5 15/16"	5/8"	-	-	6 3/4"	13/32"	20"	19 1/2"	6"

Conclusion: 04 Joint The Above Mentioned 5 1/2" Heavy Weight Drill Pipe was Found Acceptable from at time of Inspection ready to use.
NOTE Pin Stress Relief Groove: Unless waived by the customer, all API connection NC38 and larger that make up to BHA components shall be equipped with pin stress relief grooves or they shall be rejected they diameter and width of the API pin stress relief grooves shall be measured and shall meet the requirements of table 3.9
 Box Bore Back: unless waived by the customer all API connection NC 38 and larger that make up to BHA components shall be equipped with bore back boxes or they shall be rejected diameter and length of the bore back cylinder shall be measured and shall meet the requirements of table 3.9

Abbreviations :

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:	NAWEEB HUSSAIN	Review By			
Qualification:	NPT Level II	Senior Inspector:	MOHAMED FAHAD	Supervisor:	RAO SOHAIL
Signature:			Customer Name:		
Original - Client	Copy - Area Office	Customer Signature:			
QC/FN/DJ-PB/029 Rev.00 dated 07.Nov2021					

