

# AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

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## AFTER REPAIR INSPECTION CERTIFICATE OF 5" HWDP

<b>Client Name:</b>	DAQING DRILLING COMPANY	<b>Report No.:</b>	QC-ATS-WSH-01-24-0020-H01
<b>Acceptance criteria</b>	<input checked="" type="checkbox"/> API SPEC 7-2	<b>Date Of Inspection:</b>	23-01-2024
<b>Work Location:</b>	ABERDEEN WORKSHOP	<b>Rig Name</b>	DQ-37
<b>Test Equipment &amp; Consumeable 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	RC2-060120151 Cal. 21.FEB.2023 Cal Due 20.AUG.2023
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2025	A.C HAND YOKE	21332 Cal 21.FEB.2023 Cal Due 20.AUG.2023
INTENSITY METER	SR#1608000134 Cal.21.FEB.2023 Cal Due 20.AUG.2023	UV BLACK LIGHT	SR#52852 Cal. 21.FEB.2023 Cal Due 20. AUG.2023
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 CAL.Date. 19.FEB.2023 CAL Due Date 18.AUG.2023	THREAD PROFILE GAGE	SR#21336 CAL.Date.19. FEB. 2023 CAL Due Date.18. AUG. 2023 SR#21335 CAL.Date.21. FEB.2023 CAL Due Date. 20.AUG.2023
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:	2850 μw/cm <sup>2</sup>
Magnetism Direction (Longitudinal)			
<b>METHODOLOGY:</b>	<ul style="list-style-type: none"> <li>• Through Visual inspection</li> <li>• MPI inspection with Ultraviolet light</li> <li>• Dimensional Inspection</li> <li>*Lead Gaiging, Taper Gauging &amp; Thread Profile Gauging.</li> </ul>		
<b>Connection:</b>	<b>NC-50</b>	<b>Size:</b>	<b>5"</b>

Serial No.	Visual Inspection			Black Light		Dimensional 3 Inspection															
	Pin	Box	Body	Pin	Box	Pin					Box					Body					
						OD (in)	ID (in)	SRG (in)	SRG (in)	Bevel (in)	pin (in)	OD (in)	CB (in)	CB (in)	BB (in)	BBL (in)	Bevel (in)	Pin Tong (in)	Box Tong (in)	C.W Pad OD(in)	length (in)
06000914	-	Acc	-	-	Acc	-	-	-	-	-	-	69/16"	5 5/16"	5/8"	4 5/8"	8 3/16"	6 1/16"	-	19 13/16"	-	-
06000929	-	Acc	-	-	Acc	-	-	-	-	-	-	69/16"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/16"	-	19 3/4"	-	-
06000939	-	Acc	-	-	Acc	-	-	-	-	-	-	69/16"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/16"	-	16 1/2"	-	-
10000346	-	Acc	-	-	Acc	-	-	-	-	-	-	69/16"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/16"	-	14 3/4"	-	-
06000906	-	Acc	-	-	Acc	-	-	-	-	-	-	69/16"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/16"	-	19 7/8"	-	-

**Conclusion :**

The Above Mentioned 5" Heavy Weight Drill Pipe Was Found Acceptable from Box Connection After Repair at the time of Inspection, Ready to use.

**Abbreviations :**

<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 Damage.	<b>Blue</b> Damage	<b>Green</b> Seal Damage	<b>Yellow</b> ACFM

<b>Inspector Name:</b>	M. FAHAD	<b>Review By</b>			
<b>Qualification:</b>	ASNT Level 3	<b>Senior Inspector:</b>	RAO SOHAIL	<b>Supervisor:</b>	WAQAS AWAN
<b>Signature:</b>					<b>Customer Name:</b>
					<b>Customer Signature:</b>

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QC/FN/DPI/NDT/006 Rev.00 DATED 07.NOV.2021



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## AFTER REPAIR INSPECTION CERTIFICATE OF 5" HWDP

<b>Client Name:</b>	DAQING DRILLING COMPANY	<b>Report No.:</b>	QC-ATS-WSH-01-24-0020-H02
<b>Acceptance criteria</b>	<input checked="" type="checkbox"/> API SPEC 7-2	<b>Date Of Inspection:</b>	23-01-2024
<b>Work Location:</b>	ABERDEEN WORKSHOP	<b>Rig Name</b>	DQ-37
<b>Test Equipment &amp; Consumeable Details</b>			
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<b>Connection:</b>	<b>NC-50</b>	<b>Size:</b>	<b>5"</b>

Serial No.	Visual Inspection			Black Light		Dimensional 3 Inspection																
						Pin						Box						Body				
	Pin	Box	Body	Pin	Box	OD (in)	ID (in)	SRG □ (in)	SRG □ (in)	Bevel □ (in)	pin □ (in)	OD (in)	CB □ (in)	CB □ (in)	BB □ (in)	BBL □ (in)	Bevel □ (in)	Pin Tong □ (in)	Box Tong □ (in)	C.W Pad OD (in)	length (in)	
222	Acc	-	-	Acc	-	6 9/16"	3 1/16"	4 23/32"	3 3/4"	6 1/16"	4 7/16"	-	-	-	-	-	-	-	12 1/4"	-	-	-
06000938	Acc	-	-	Acc	-	6 9/16"	3 1/16"	4 23/32"	15 1/16"	6 1/16"	4 7/16"	-	-	-	-	-	-	-	14 3/8"	-	-	-

**Conclusion :** The Above Mentioned 5" Heavy Weight Drill Pipe Was Found Acceptable from Pin Connection After Repair at the time of Inspection, Ready to use.

### Abbreviations :

<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
□ Diameter	□ Length	□ Width	□ Depth	<b>NP.</b> Not Present	<b>NA.</b> Not Applicable
<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
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