

**AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED**

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**AFTER REPAIR INSPECTION CERTIFICATE OF 5'' HWDP**

<b>Client Name:</b>	<b>DAQING DRILLING</b>	<b>Report No.:</b>	QC-2024-MAY-DQ-12-007
<b>Acceptance Criteria:</b>	<input checked="" type="checkbox"/> API SPEC 7-2	<b>Date Of Inspection:</b>	6.MAY.2024
<b>Work Location:</b>	<b>ABERDEEN WORKSHOP</b>	<b>Rig Name</b>	DQ-12
<b>Test Equipment &amp; Consumable 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	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 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 <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, &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)	BB (in)	Bevel (in)	Pin Tong (in)	Box Tong (in)	C.W Pad OD (in)	length (in)
111	Acc	Acc	-	Acc	Acc	6 9/16"	3 1/16"	4 23/32"	7/8"	6 1/16"	4 1/4"	6 9/16"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/16"	12 3/4"	14"	-	-
104000113	Acc	Acc	-	Acc	Acc	6 9/16"	3 1/16"	4 23/32"	3/4"	6 1/16"	4 1/4"	6 9/16"	5 5/16"	5/8"	4 5/8"	8 3/8"	6 1/16"	15"	16 3/4"	-	-
666	Acc	Acc	-	Acc	Acc	6 9/16"	3 1/16"	4 23/32"	7/8"	6 1/16"	4 1/4"	6 9/16"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/16"	15 3/8"	13 3/8"	-	-
104000125	Acc	Acc	-	Acc	Acc	6 9/16"	3 1/16"	4 23/32"	3/4"	6 1/16"	4 1/4"	6 9/16"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/16"	15 5/8"	16 3/4"	-	-
106000917	Acc	Acc	-	Acc	Acc	6 9/16"	3 1/16"	4 23/32"	3/4"	6 1/16"	4 1/4"	6 9/16"	5 5/16"	5/8"	4 5/8"	8"	6 1/16"	17 7/8"	16 1/2"	-	-
1194	Acc	Acc	-	Acc	Acc	6 9/16"	3 1/16"	4 23/32"	3/4"	6 1/16"	4 1/4"	6 9/16"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/16"	15 1/4"	16 9/16"	-	-

**Conclusion :** The Above Mentioned 5'' Heavy Weight Drill Pipe Were Found Acceptable from Pin& 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>⊘</b> Diameter	<b>⊘</b> Length	<b>⊘</b> Width	<b>⊘</b> 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
<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>	<b>No Defects</b>	<b>Red</b>	<b>Crack or Extreme Damage.</b>	<b>Blue</b>	<b>Damage</b>
				<b>Green</b>	<b>Seal Damage</b>
				<b>Yellow</b>	<b>ACFM</b>

<b>Inspector Name:</b>	Usman Shabbir	<b>Review By</b>			
<b>Qualification:</b>	ASNT Level I (MT,PT,UT)	<b>Senior Inspector:</b>	NAVEED HUSIAN	<b>Supervisor:</b>	RAO SOHAIL
<b>Signature:</b>				<b>Customer Name:</b>	
				<b>Customer Signature:</b>	

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