

AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq

Tel: +9647810009138 / +9647834964657

Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com



CERTIFICATE OF INSPECTION AFTER REPAIR FOR 5" HWDP

Client Name:	Hong Hua Oil & Gas Engineering Services Ltd	Report No.:	QC-B-02-25-0057-1
Acceptance Creater:	<input checked="" type="checkbox"/> API SPEC 7-2	Date of Inspection:	26-03 -2025
Work Location:	ABERDEEN WORKSHOP BASRA IRAQ	Rig No.:	HH-008
Test Equipment & Consumeable Details			
WHITE CONTRAST WCP-2	Batch #: 220602 Manufacture: Magnaflux Exp Date: JUN,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#: 220605 Manufacture: Magnaflux Exp Date: JULY,2026	COIL(1200 AMP-TURNS/IN	SC 22713 Cal.15.Jan.2025 Cal Due14.July.2025
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2026	A.C HAND YOKE	201504053 Cal.15.Jan.2025 Cal Due14.July.2025
INTENSITY METER	SR#1608000134 CAL.Date Cal. 15.Jan.2025 Cal Due 14.July.2025	UV BLACK LIGHT	SR#1900084 Cal.15.Jan.2025 Cal Due14.July.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal. 13.Jan.2025 Cal Due 12.July.2025	THREAD PROFILE GAGE	SR#21336 Cal. 13.Jan.2025 Cal Due 12.July.2025 SR#21335 Cal. 15. Jan.2025 Cal Due 14.July.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	WMPT Light Intensity	3450Lux
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	UV LIGHT INTENSITY:	3000 μw/cm ²
Magnetism Direction (Longitudinal)			
METHODOLOGY:	• Through Visual inspection • Dimensional 3 • MPI inspection with Ultraviolet light *Lead Gaiging, & Thread Profile Gaiging.		
Connection:	NC50	Size:	5"

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 ϖ	Pin Tong λ (in)	Box Tong λ (in)	Center Pad ϕ (in)	
2S823	Acc.	--	--	--	Acc.	--	6 3/8"	3"	4 23/32"	3/4"	6 1/16"	4 1/2"	--	--	--	--	--	--	--	--	15 1/2"	--	--
4P522	Acc.	--	--	--	Acc.	--	6 3/8"	3"	4 23/32"	3/4"	6 1/16"	4 1/2"	--	--	--	--	--	--	--	--	13 1/4"	--	--
Conclusion:							02 The Above Mentioned HWDP was found "Acceptable"From Pin Side After Repair 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	ϖ 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:	Mohammed Magdy	Review By			
Qualification:		Senior Inspector:	M.SARWAR	Supervisor:	Ahmed Mohammed
Signature:					Customer Name:
					Customer Signature:
Original - Client Files		Copy - Area Office		QC/FN/DJ-PB/029 Rev.00 dated 07.Nov2021	



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CERTIFICATE OF INSPECTION AFTER REPAIR FOR 5" HWDP

Client Name:	Hong Hua Oil & Gas Engineering Services Ltd	Report No.:	QC-B-02-25-0057-2
Acceptance Creater:	<input checked="" type="checkbox"/> API SPEC 7-2	Date of Inspection:	26-03 -2025
Work Location:	ABERDEEN WORKSHOP BASRA IRAQ	Rig No.:	HH-008
Test Equipment & Consumable Details			
WHITE CONTRAST WCP-2	Batch #: 220602 Manufacture: Magnaflux Exp Date: JUN,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#.220605 Manufacture: Magnaflux Exp Date: JULY.2026	COIL(1200 AMP-TURNS/IN	SC 22713 Cal.15.Jan.2025 Cal Due 14.July.2025
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2026	A.C HAND YOKE	201504053 Cal.15.Jan.2025 Cal Due 14.July.2025
INTENSITY METER	SR#1608000134 CAL.Date Cal. 15.Jan.2025 Cal Due 14.July.2025	UV BLACK LIGHT	SR#1900084 Cal.15.Jan.2025 Cal Due 14.July.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal. 13.Jan.2025 Cal Due 12.July.2025	THREAD PROFILE GAGE	SR#21336 Cal. 13.Jan.2025 Cal Due 12.July.2025 SR#21335 Cal. 15. Jan.2025 Cal Due 14.July.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	WMPT Light Intensity	3450Lux
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	UV LIGHT INTENSITY:	3000 μw/cm ²
Magnetism Direction (Longitudinal)			
METHODOLOGY:	• Through Visual inspection • Dimensional 3 • MPI inspection with Ultraviolet light *Lead Gaiging. & Thread Profile Gaiging.		
Connection:	NC50	Size:	5"

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)	pin λ (in)	OD (in)	CB ϕ (in)	CB δ (in)	BB ϕ (in)	BB δ (in)	Bevel ϕ (in)	Seal ϖ	Pin Tong λ (in)	Box Tong λ (in)	Center Pad ϕ (in)	
13P522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 3/8"	5 5/16"	5/8"	4 5/8"	8"	6 1/16"	3/8"	--	16 1/4"	--	
42303	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 3/8"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/16"	3/8"	--	16 1/8"	--	
17P522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 3/8"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/16"	3/8"	--	16 1/2"	--	
15P522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 3/8"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/16"	3/8"	--	16 5/8"	--	
5P522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 7/16"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/16"	3/8"	--	16 1/4"	--	

Conclusion: 05 The Above Mentioned HWDP was found "Acceptable" From Box Side After Repair 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	ϖ 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:	Mohammed Magdy	Review By			
Qualification:		Senior Inspector:	M.SARWAR	Supervisor:	Ahmed Mohammed
Signature:					Customer Name:
					Customer Signature:

Original - Client Files

Copy - Area Office

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CERTIFICATE OF INSPECTION AFTER REPAIR FOR 5" HWDP

Client Name:	Hong Hua Oil & Gas Engineering Services Ltd	Report No.:	QC-B-02-25-0057-3
Acceptance Creater:	<input checked="" type="checkbox"/> API SPEC 7-2	Date of Inspection:	26-03 -2025
Work Location:	ABERDEEN WORKSHOP BASRA IRAQ	Rig No.:	HH-008
Test Equipment & Consumable Details			
WHITE CONTRAST WCP-2	Batch #: 220602 Manufacture: Magnaflux Exp Date: JUN,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#.220605 Manufacture: Magnaflux Exp Date: JULY,2026	COIL(1200 AMP-TURNS/IN	SC 22713 Cal.15.Jan.2025 Cal Due 14.July.2025
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March,2026	A.C HAND YOKE	201504053 Cal.15.Jan.2025 Cal Due 14.July.2025
INTENSITY METER	SR#1608000134 CAL.Date Cal. 15.Jan.2025 Cal Due 14.July.2025	UV BLACK LIGHT	SR#1900084 Cal.15.Jan.2025 Cal Due 14.July.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal. 13.Jan.2025 Cal Due 12.July.2025	THREAD PROFILE GAGE	SR#21336 Cal. 13.Jan.2025 Cal Due 12.July.2025 SR#21335 Cal. 15. Jan.2025 Cal Due 14.July.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	WMPT Light Intensity	3450Lux
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	UV LIGHT INTENSITY:	3000 μw/cm ²
Magnetism Direction (Longitudinal)			
METHODOLOGY:	• Through Visual inspection • Dimensional 3 • MPI inspection with Ultraviolet light *Lead Gaiging. & Thread Profile Gaiging.		
Connection:	NC50	Size:	5"

Serial No.	Visual Inspection		Black Light		Dimensional 3 Inspection																	
					Pin							Box							Body			
	Pin	Box	Body	HB	Pin	Box	OD (in)	ID (in)	SRG ϕ (in)	SRG λ (in)	Bevel ϕ (in)	pin λ (in)	OD (in)	CB ϕ (in)	CB δ (in)	BB ϕ (in)	BB δ (in)	Bevel ϕ (in)	Seal ϖ	Pin Tong λ (in)	Box Tong λ (in)	Center Pad ϕ (in)
16P522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 3/8"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/16"	3/8"	--	16 1/4"	--
18P522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/16"	3/8"	--	16 1/4"	--
11P522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/16"	3/8"	--	16 1/8"	--
19P522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/8"	3/8"	--	15 1/4"	--
7777	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/16"	3/8"	--	21"	--

Conclusion: 05 The Above Mentioned HWDP was found "Acceptable" From Box Side After Repair 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	ϖ 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:	Mohammed Magdy	Review By			
Qualification:		Senior Inspector:	M.SARWAR	Supervisor:	Ahmed Mohammed
Signature:					Customer Name:
					Customer Signature:

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Client Name:	Hong Hua Oil& Gas Engineering Services Ltd	Report No.:	QC-B-02-25-0057-4
Acceptance Creater:	<input checked="" type="checkbox"/> API SPEC 7-2	Date of Inspection:	26-03 -2025
Work Location:	ABERDEEN WORKSHOP BASRA IRAQ	Rig No.:	HH-008
Test Equipment & Consumable Details			
WHITE CONTRAST WCP-2	Batch #: 220602 Manufacture: Magnaflux Exp Date: JUN,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#: 220605 Manufacture: Magnaflux Exp Date: JULY.2026	COIL(1200 AMP-TURNS/IN	SC 22713 Cal.15.Jan.2025 Cal Due 14.July.2025
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2026	A.C HAND YOKE	201504053 Cal.15.Jan.2025 Cal Due 14.July.2025
INTENSITY METER	SR#1608000134 CAL.Date Cal. 15.Jan.2025 Cal Due 14.July.2025	UV BLACK LIGHT	SR#1900084 Cal.15.Jan.2025 Cal Due 14.July.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal. 13.Jan.2025 Cal Due 12.July.2025	THREAD PROFILE GAGE	SR#21336 Cal. 13.Jan.2025 Cal Due 12.July.2025 SR#21335 Cal. 15. Jan.2025 Cal Due 14.July.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	WMPT Light Intensity	3450Lux
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	UV LIGHT INTENSITY:	3000 µw/cm ²
Magnetism Direction (Longitudinal)			
METHODOLOGY:	• Through Visual inspection • Dimensional 3		• MPI inspection with Ultraviolet light *Lead Gaiging, & Thread Profile Gauging.
Connection:	NC50	Size:	5"

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)	pin λ (in)	OD (in)	CB ϕ (in)	CB δ (in)	BB ϕ (in)	BB δ (in)	Bevel ϕ (in)	Seal ϖ	Pin Tong λ (in)	Box Tong λ (in)	Center Pad ϕ (in)
21P522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 3/8"	5 5/16"	5/8"	4 5/8"	8 3/8"	6 1/8"	3/8"	--	16 1/8"	--
20P522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/8"	3/8"	--	15 3/4"	--
1S924	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/16"	3/8"	--	21 3/4"	--
7S522	--	Acc.	--	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5 5/16"	5/8"	4 5/8"	8"	6 1/16"	3/8"	--	16 1/2"	--

Conclusion: 04 The Above Mentioned HWDP was found "Acceptable" From Box Side After Repair 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	ϖ 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
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Colors Code: White No Defects Red Crack or Extreme Blue Damage Green Seal Damage Yellow ACFM					

Inspector Name:	Mohammed Meady	Review By			
Qualification:		Senior Inspector:	M.SARWAR	Supervisor:	Ahmed Mohammed
Signature:		Customer Name:		Customer Signature:	
Original - Client Files		Copy - Area Office		QC/FN/DJ-PB/029 Rev.00 dated 07.Nov2021	



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CERTIFICATE OF INSPECTION AFTER REPAIR FOR 5" HWDP

Client Name:	Hong Hua Oil & Gas Engineering Services Ltd	Report No.:	QC-B-02-25-0057-5
Acceptance Creater:	<input checked="" type="checkbox"/> API SPEC 7-2	Date of Inspection:	26-03 -2025
Work Location:	ABERDEEN WORKSHOP BASRA IRAQ	Rig No.:	HH-008
Test Equipment & Consumable Details			
WHITE CONTRAST WCP-2	Batch #: 220602 Manufacture: Magnaflux Exp Date: JUN,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#.220605 Manufacture: Magnaflux Exp Date: JULY.2026	COIL(1200 AMP-TURNS/IN	SC 22713 Cal.15.Jan.2025 Cal Due 14.July.2025
FLUORESCENT 14HF	Batch #: 220306 Manufacture: Magnaflux Exp Date: March.2026	A.C HAND YOKE	201504053 Cal.15.Jan.2025 Cal Due 14.July.2025
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Magnetism Direction (Longitudinal)			
METHODOLOGY:	• Through Visual inspection • Dimensional 3 • MPI inspection with Ultraviolet light *Lead Gaiging. & Thread Profile Gaiging.		
Connection:	NC50	Size:	5"

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)	pin λ (in)	OD (in)	CB φ (in)	CB δ (in)	BB φ (in)	BB δ (in)	Bevel φ (in)	Seal φ	Pin Tong λ (in)	Box Tong λ (in)	Center Pad φ (in)
2P321	Acc.	Acc.	--	--	Acc.	Acc.	6 1/2"	3"	4 23/32"	3/4"	6 1/16"	4 1/2"	6 3/8"	5 5/16"	5/8"	4 5/8"	8 3/8"	6 1/8"	3/8"	19 1/4"	16 1/2"	--
1S624	Acc.	Acc.	--	--	Acc.	Acc.	6 3/8"	3"	4 23/32"	3/4"	6 1/16"	4 1/2"	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/8"	3/8"	15 1/8"	17"	--
14P522	Acc.	Acc.	--	--	Acc.	Acc.	6 3/8"	3"	4 23/32"	3/4"	6 1/16"	4 1/2"	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/16"	3/8"	16 1/4"	20 5/8"	--

Conclusion: 03 The Above Mentioned HWDP was found "Acceptable" From Pin Side & Box Side After Repair 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	σ 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:	Mohammed Meady	Review By			
Qualification:		Senior Inspector:	M.SARWAR	Supervisor:	Ahmed Mohammed
Signature:					Customer Name:
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