



CERTIFICATE OF INSPECTION AFTER REPAIR FOR 6 1/2" DRILL COLLAR

Client Name:	Hong Hua Oil& Gas Engineering Services Ltd	Report No.:	QC-B-02-25-0057-6
Acceptance Createra.	<input checked="" type="checkbox"/> API SPEC 7-2	Date of Inspection:	21-February -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:	NC 50	Size:	6 1/2"

S/N	Visual Inspection			MPI			Dimensional 3 Inspection															
	Pin	Box	Body	Pin	Box	Body	Pin					Box					Body					
							OD (in)	ID (in)	SRG □ (in)	SRG W □ (in)	Pin □ (in)	Bevel □ (in)	OD (in)	CBD □ (in)	CBW □ (in)	BB □ (in)	BBL □ (in)	Bevel □ (in)	Pin Tong □ (in)	Box Tong □ (in)	EGR □ (in)	SGR □ (in)
1305259	--	Acc.	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5/16"	5/8"	4 5/8"	8 1/8"	6 1/4"	--	19"	...	--	30.7
1502606	--	Acc.	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5/16"	5/8"	4 5/8"	8 1/8"	6 1/8"	--	21 1/8"	...	--	29.8
H008-005	--	Acc.	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5/16"	5/8"	4 5/8"	8 1/8"	6 5/16"	--	41 7/8"	...	--	29.5
1502632	--	Acc.	--	--	Acc.	--	--	--	--	--	--	6 1/2"	5/16"	5/8"	4 5/8"	8 1/8"	6 3/8"	--	21 1/2"	...	--	29.7

Conclusion: 04 The Above Mentioned Drill Collar 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
□ Diameter	□ Length	□ Width	□ 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	PT Pitting Thread	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 Damage.	Blue Damage	Green Seal Damage	Yellow ACFM

Inspector Name:	M. Chahinec Magdy	Review By			
Qualification:	ASNT	Senior Inspector:	M.SARWAR	Supervisor:	Ahmed Mohammed
Signature:					Customer Name:
					Customer Signature:

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CERTIFICATE OF INSPECTION AFTER REPAIR FOR 6 1/2" DRILL COLLAR

Client Name:	Hong Hua Oil & Gas Engineering Services Ltd	Report No.:	QC-B-02-25-0057-7
Acceptance Creater:	<input checked="" type="checkbox"/> API SPEC 7-2	Date of Inspection:	21-February -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 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:	NC 50	Size:	6 1/2"

S/N	Visual Inspection			MPI			Dimensional 3 Inspection																	
	Pin	Box	Body	Pin	Box	Body	Pin						Box						Body		Overall (Feet)			
							OD (in)	ID (in)	SRG (in)	SRG W (in)	Pin (in)	Bevel (in)	OD (in)	CBD (in)	CBW (in)	BB (in)	BBL (in)	Bevel (in)	Pin Tong (in)	Box Tong (in)		EGR (in)	SGR (in)	
H008-008	Acc.	--	--	Acc.	--	--	6 1/2"	2 3/4"	4 23/32	7/8"	4 1/2"	6 1/16"	--	--	--	--	--	--	--	13 1/4"	--	...	--	29.4
H008-007	Acc.	--	--	Acc.	--	--	6 1/2"	2 7/8"	4 23/32	3/4"	4 1/2"	6 1/16"	--	--	--	--	--	--	--	20 1/2"	--	...	--	30.7
2S322	Acc.	--	--	Acc.	--	--	6 1/2"	2 3/4"	4 23/32	3/4"	4 1/2"	6 1/4"	--	--	--	--	--	--	--	40 1/2"	--	...	--	30.6
H008-001	Acc.	--	--	Acc.	--	--	6 1/2"	2 7/8"	4 23/32	7/8"	4 1/2"	6 1/4"	--	--	--	--	--	--	--	16 1/2"	--	...	--	29.4
Conclusion:		04 The Above Mentioned Drill Collar 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	
EGR Elevator Groove Recess	SGR Slip Groove Recess	CR Crack	B Bent	PC Premium Class	RF Reface	
GT Galled Thread	PT Pitting Thread	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 Damage.	Blue Damage	Green Seal Damage	Yellow ACFM

Inspector Name:	Mohammed	Review By			
Qualification:	ASNT	Senior Inspector: M.SARWAR	Supervisor: Ahmed Mohammed	Customer Name:	
Signature:				Customer Signature:	
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CERTIFICATE OF INSPECTION AFTER REPAIR FOR 6 1/2" DRILL COLLAR

Client Name:	Hong Hua Oil & Gas Engineering Services Ltd	Report No.:	QC-B-02-25-0057-8
Acceptance Creater:	<input checked="" type="checkbox"/> API SPEC 7-2	Date of Inspection:	21-February -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 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:	NC 50	Size:	6 1/2"

S/N	Visual Inspection			MPI			Dimensional 3 Inspection																
							Pin					Box					Body						
	Pin	Box	Body	Pin	Box	Body	OD (in)	ID (in)	SRG □ (in)	SRG W □ (in)	Pin □ (in)	Bevel □ (in)	OD (in)	CBD □ (in)	CBW □ (in)	BB □ (in)	BBL □ (in)	Bevel □ (in)	Pin Tong □ (in)	Box Tong □ (in)	EGR □ (in)	SGR □ (in)	Overall □ (Feet)
1103272	Acc.	--	--	Acc.	--	--	6 1/2"	2 7/8"	4 23/32	3/4"	4 1/2"	6 5/16"	--	--	--	--	--	--	16 3/8"	--	--	--	29.4

Conclusion: 01 The Above Mentioned Drill Collar 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
□ Diameter	□ Length	□ Width	□ 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	PT Pitting Thread	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 Damage.	Blue Damage	Green Seal Damage	Yellow ACFM

Inspector Name:	Mohammed	Review By			
Qualification:	ASNT	Senior Inspector:	M.SARWAR	Supervisor:	Ahmed Mohammed
Signature:					
		Customer Signature:			

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CERTIFICATE OF INSPECTION AFTER REPAIR FOR 6 1/2" DRILL COLLAR

Client Name:	Hong Hua Oil & Gas Engineering Services Ltd	Report No.:	QC-B-02-25-0057-9
Acceptance Creater:	<input checked="" type="checkbox"/> API SPEC 7-2	Date of Inspection:	21-February -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 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:	NC 50	Size:	6 1/2"

S/N	Visual Inspection			MPI			Dimensional 3 Inspection																
	Pin	Box	Body	Pin	Box	Body	Pin					Box					Body						
							OD (in)	ID (in)	SRG (in)	SRG W (in)	Pin (in)	Bevel (in)	OD (in)	CBD (in)	CBW (in)	BB (in)	BBL (in)	Bevel (in)	Pin Tong (in)	Box Tong (in)	EGR (in)	SGR (in)	Overall (in)
1502863	Acc.	Acc.	--	Acc.	Acc.	--	6 1/2"	2 3/4"	4 23/32	1"	4 1/2"	6 1/16"	6 1/2"	5 5/16"	5/8"	4 5/8"	8"	6 1/8"	42 1/2"	20"	...	--	30.7
1502627	Acc.	Acc.	--	Acc.	Acc.	--	6 1/2"	2 3/4"	4 23/32	7/8"	4 1/2"	6 1/16"	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/4"	43 1/4"	21 1/2"	...	--	29.90
1502852	Acc.	Acc.	--	Acc.	Acc.	--	6 1/2"	2 3/4"	4 23/32	3/4"	4 1/2"	6 1/4"	6 1/2"	5 5/16"	5/8"	4 5/8"	8"	6 1/4"	42 1/4"	21 1/2"	...	--	30.8
1S1017	Acc.	Acc.	--	Acc.	Acc.	--	6 1/2"	2 3/4"	4 23/32	7/8"	4 1/2"	6 1/4"	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/4"	42"	21 1/2"	...	--	30.7

Conclusion: 04 The Above Mentioned Drill Collar 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	
EGR Elevator Groove Recess	SGR Slip Groove Recess	CR Crack	B Bent	PC Premium Class	RF Reface	
GT Galled Thread	PT Pitting Thread	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 Damage.	Blue Damage	Green Seal Damage	Yellow ACFM

Inspector Name:	Mohammed	Review By			
Qualification:	ASNT	Senior Inspector:	M.SARWAR	Supervisor:	Ahmed Mohammed
Signature:					
					Customer Signature:

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CERTIFICATE OF INSPECTION AFTER REPAIR FOR 6 1/2" DRILL COLLAR

Client Name:	Hong Hua Oil & Gas Engineering Services Ltd	Report No.:	QC-B-02-25-0057-10
Acceptance Creater:	<input checked="" type="checkbox"/> API SPEC 7-2	Date of Inspection:	21-February -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 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
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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:	NC 50	Size:	6 1/2"

S/N	Visual Inspection			MPI			Dimensional 3 Inspection																
							Pin					Box					Body						
	Pin	Box	Body	Pin	Box	Body	OD (in)	ID (in)	SRG (in)	SRG W (in)	Pin (in)	Bevel (in)	OD (in)	CBD (in)	CBW (in)	BB (in)	BBL (in)	Bevel (in)	Pin Tong (in)	Box Tong (in)	EGR (in)	SGR (in)	Overall (in)
1502830	Acc.	Acc.	--	Acc.	Acc.	--	6 1/2"	2 3/4"	4 23/32	7/8"	4 1/2"	6 1/4"	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/8"	6 1/4"	42 1/2"	21 1/2"	...	--	30.8
6S1017	Acc.	Acc.	--	Acc.	Acc.	--	6 1/2"	2 3/4"	4 23/32	3/4"	4 1/2"	6 1/4"	6 1/2"	5 5/16"	5/8"	4 5/8"	8 1/4"	6 1/4"	42 1/4"	21 3/4"	...	--	29.6

Conclusion: 02 The Above Mentioned Drill Collar 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	
EGR Elevator Groove Recess	SGR Slip Groove Recess	CR Crack	B Bent	PC Premium Class	RF Reface	
GT Galled Thread	PT Pitting Thread	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 Damage.	Blue Damage	Green Seal Damage	Yellow ACFM

Inspector Name:	Mohammed	Review By			
Qualification:	ASNT	Senior Inspector: M.SARWAR	Supervisor: Ahmed Mohammed	Customer Name:	
Signature:				Customer Signature:	

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