



## INSPECTION CERTIFICATE FOR SIDE ENTRY SUB

Client Name:	<b>HALLIBURTON (WPS)</b>	Report No.:	HAL-24-05-MS-WPS-001
Acceptance criteria:	DS-1 Volume 4 Fifth Edition	Date of Inspection:	08.MAY.2025
Work Location:	Burjesia Halliburton Camp Basra - Iraq	Halliburton Doc. (Visual Procedure D00305796 Revision <b>Z</b> )	
Halliburton Doc. (Dimensional Procedure D00301932 Revision <b>M</b> )		Halliburton Doc. (MPI Procedure D00976850 Revision <b>E</b> )	

### TEST EQUIPMENT & CONSUMABLE DETAILS

Item	Batch # / Manufacture / Exp Date	Technical Details	Calibration / Due Date
WHITE CONTRAST WCP-2	Batch #: 230408 Manufacture: Magnaflux Exp Date: APRIL,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#: 230604 Manufacture: Magnaflux Exp Date: JUNE.2026	COIL(1200 AMP-TURNS/IN	SR#22650 Cal.09.APR.2025 Cal Due 08.OCT.2025
FLUORESCENT 14HF	Batch #: 230503 Manufacture: Magnaflux Exp Date: MAY.2026	A.C HAND YOKE	SR#201504052 Cal.08.APR.2025 Cal Due 07.OCT.2025
INTENSITY METER	SR# 2722003 Cal.10.APR.2025 Cal Due 09.OCT.2025	UV BLACK LIGHT	SR#87521 Cal.10.APR.2025 Cal Due 09.OCT.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal.09.APR.2025 Cal Due 08.OCT.2025	THREAD PROFILE GAGE	SR#21336 Cal.09.APR.2025 Cal Due 08.OCT.2025 SR#21335 Cal.09.APR.2025 Cal Due 08.OCT.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	UV LIGHT INTENSITY:	3190 µw/cm <sup>2</sup>
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity:	3680 Lux

### MAGNITISUM DIRECTION (LONGITUDENAL)

METHODOLOGY:	<ul style="list-style-type: none"> <li>• Through Visual inspection</li> <li>• Dimensional Inspection</li> </ul>	<ul style="list-style-type: none"> <li>•MPI inspection with Ultraviolet light</li> </ul>
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Serial No.	Description	Connection		Result Inspection			Dimensional 3 Inspection											
		Pin	Box	Pin	Box	Body	Pin					Box					Body	
							OD(In)	ID(In)	Neck ϕ(In)	Pin λ(In)	Bevel ϕ(In)	OD(In)	CB ϕ(In)	CB ϕ(In)	BB ϕ(In)	BB ϕ(In)		Bevel ϕ(In)
SES-2, 14244059	SIDE ENTRY SUB	4 1/2 IF	4 1/2 IF	Acc.	Acc.	Acc.	6 1/4"	2 13/16"	3/8"	4 7/16"	6"	6 1/4"	5 10/32"	5/8"	-	-	6"	37 5/8"



**Conclusion:** ■ 01 Side Entry Sub was found "Acceptable" At time of Inspection Ready For 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>ϕ</b> Diameter	<b>λ</b> Length	<b>ϖ</b> Width	<b>δ</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> No Defects	<b>Red</b> Crack or Extreme Damage.	<b>Blue</b> Damage	<b>Green</b> Seal Damage	<b>Yellow</b> ACFM

Inspector Name:	M Shahzad Ahmed	Review By			
Qualification:	ASNT Level II (MT)	Senior Inspector:	NAVEED HUSSAIN	Supervisor:	Hani Ali
Signature:		Customer Name:	ALI Talib HB48903	Customer Signature:	
		Date:	09-05-2025	Signature: Haliburton	





## INSPECTION CERTIFICATE FOR SIDE ENTRY SUB

Client Name:	<b>HALLIBURTON (WPS)</b>	Report No.:	HAL-24-05-MS-WPS-002
Acceptance criteria:	DS-1 Volume 4 Fifth Edition	Date of Inspection:	08.MAY.2025
Work Location:	Burjesia Halliburton Camp Basra - Iraq	Halliburton Doc. (Visual Procedure D00305796 Revision <b>Z</b> )	
Halliburton Doc. (Dimensional Procedure D00301932 Revision <b>M</b> )		Halliburton Doc. (MPI Procedure D00976850 Revision <b>E</b> )	

### TEST EQUIPMENT & CONSUMABLE DETAILS

Item	Batch # / Manufacture / Exp Date	Technical Details	Calibration / Due Date
WHITE CONTRAST WCP-2	Batch #: 230408 Manufacture: Magnaflux Exp Date: APRIL,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#: 230604 Manufacture: Magnaflux Exp Date: JUNE.2026	COIL(1200 AMP-TURNS/IN	SR#22650 Cal.09.APR.2025 Cal Due 08.OCT.2025
FLUORESCENT 14HF	Batch #: 230503 Manufacture: Magnaflux Exp Date: MAY.2026	A.C HAND YOKE	SR#201504052 Cal.08.APR.2025 Cal Due 07.OCT.2025
INTENSITY METER	SR# 2722003 Cal.10.APR.2025 Cal Due 09.OCT.2025	UV BLACK LIGHT	SR#87521 Cal.10.APR.2025 Cal Due 09.OCT.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal.09.APR.2025 Cal Due 08.OCT.2025	THREAD PROFILE GAGE	SR#21336 Cal.09.APR.2025 Cal Due 08.OCT.2025 SR#21335 Cal.09.APR.2025 Cal Due 08.OCT.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	UV LIGHT INTENSITY:	3190 µw/cm <sup>2</sup>
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity:	3680 Lux

### MAGNITISUM DIRECTION (LONGITUDENAL)

METHODOLOGY:	<ul style="list-style-type: none"> <li>• Through Visual inspection</li> <li>• Dimensional Inspection</li> </ul>	<ul style="list-style-type: none"> <li>•MPI inspection with Ultraviolet light</li> </ul>
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Serial No.	Description	Connection		Result Inspection			Dimensional 3 Inspection											
		Pin	Box	Pin	Box	Body	Pin					Box					Body	
							OD(In)	ID(In)	Neck ϕ(In)	Pin λ(In)	Bevel ϕ(In)	OD(In)	CB ϕ(In)	CB ϕ(In)	BB ϕ(In)	BB ϕ(In)		Bevel ϕ(In)
SES-5, 14243995	SIDE ENTRY SUB	4 1/2 IF	4 1/2 IF	Acc.	Acc.	Acc.	6 1/4"	2 13/16"	3/8"	4 7/16"	6"	6 1/4"	5 10/32"	5/8"	-	-	6"	37 5/8"



Conclusion:	<ul style="list-style-type: none"> <li>■ 01 Side Entry Sub was found "Acceptable" At time of Inspection Ready For Use.</li> </ul>
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**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>ϕ</b> Diameter	<b>λ</b> Length	<b>ϖ</b> Width	<b>δ</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	
Colors Code:		<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

Inspector	M.Shahzad Ahmed	Review By				
Qualification:	ASNT Level 3 (MT, VT)	Senior Inspector:	NAVEED HUSSAIN	Supervisor:	Hani Ali	Customer Name:
Signature:						Customer Signature:
						<b>ALI Talib HB48903</b> Date: 09-05-2025 Signature Halliburton

Original - Client Files      Copy - Area Office      QC/FN/FLS/03 Rev.00      Dated: 07 Nov 2021





## INSPECTION CERTIFICATE FOR CONNECTOR SUB

Client Name:	<b>HALLIBURTON (WPS)</b>	Report No.:	HAL-24-05-MS-WPS-003
Acceptance criteria:	DS-1 Volume 4 Fifth Edition	Date of Inspection:	08.MAY.2025
Work Location:	Burjesia Halliburton Camp Basra - Iraq	Halliburton Doc. (Visual Procedure D00305796 Revision <b>Z</b> )	
Halliburton Doc. (Dimensional Procedure D00301932 Revision <b>M</b> )		Halliburton Doc. (MPI Procedure D00976850 Revision <b>E</b> )	

### TEST EQUIPMENT & CONSUMABLE DETAILS

WHITE CONTRAST WCP-2	Batch #: 230408 Manufacture: Magnaflux Exp Date: APRIL,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#: 230604 Manufacture: Magnaflux Exp Date: JUNE.2026	COIL(1200 AMP-TURNS/IN	SR#22650 Cal.09.APR.2025 Cal Due 08.OCT.2025
FLUORESCENT 14HF	Batch #: 230503 Manufacture: Magnaflux Exp Date: MAY.2026	A.C HAND YOKE	SR#201504052 Cal.08.APR.2025 Cal Due 07.OCT.2025
INTENSITY METER	SR# 2722003 Cal.10.APR.2025 Cal Due 09.OCT.2025	UV BLACK LIGHT	SR#87521 Cal.10.APR.2025 Cal Due 09.OCT.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal.09.APR.2025 Cal Due 08.OCT.2025	THREAD PROFILE GAGE	SR#21336 Cal.09.APR.2025 Cal Due 08.OCT.2025 SR#21335 Cal.09.APR.2025 Cal Due 08.OCT.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	UV LIGHT INTENSITY:	3190 μw/cm <sup>2</sup>
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity:	3680 Lux

### MAGNITISUM DIRECTION (LONGITUDENAL)

METHODOLOGY:	<ul style="list-style-type: none"> <li>• Through Visual inspection</li> <li>• Dimensional Inspection</li> </ul>	<ul style="list-style-type: none"> <li>•MPI inspection with Ultraviolet light</li> </ul>
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Serial No.	Description	Connection		Result Inspection			Dimensional 3 Inspection													
		Pin	Box	Pin	Box	Body	Pin					Box					Body			
							OD(In)	ID(In)	Neck $\omega$ (In)	Pin $\lambda$ (In)	Bevel $\phi$ (In)	OD(In)	CB $\phi$ (In)	CB $\delta$ (In)	BB $\phi$ (In)	BB $\delta$ (In)	Bevel $\phi$ (In)	Fish Nick $\lambda$ (In)	Overall $\lambda$ (In)	
CS-3, 14244065	CONNECTOR SUB	-	3 1/2 IF	-	Acc.	Acc.	-	-	-	-	-	-	4 11/16"	4 2/32"	5/8"	-	-	4 5/8"	9 3/8"	38 1/2"



Conclusion:	01 Connector Sub was found "Acceptable" At time of Inspection Ready For Use.
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**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><math>\phi</math></b> Diameter	<b><math>\lambda</math></b> Length	<b><math>\omega</math></b> Width	<b><math>\delta</math></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> No Defects	<b>Red</b> Crack or Extreme Damage.	<b>Blue</b> Damage	<b>Green</b> Seal Damage	<b>Yellow</b> ACFM

Inspector	M.Shahzad Ahmed	Review By			
Qualification:	ASNT Level II (MT)	Senior Inspector:	NAVEED HUSSAIN	Supervisor:	Hani Ali
Signature:					Customer Name: <b>ALI Talib HB48903</b> Date: 09-05-2025 Signature
					Customer Signature:

Original - Client Files      Copy - Area Office      QC/FN/FLS/03 Rev.00      Dated: 07 Nov 2021





## INSPECTION CERTIFICATE FOR CONNECTOR SUB

Client Name:	<b>HALLIBURTON (WPS)</b>	Report No.:	HAL-24-05-MS-WPS-004
Acceptance criteria:	DS-1 Volume 4 Fifth Edition	Date of Inspection:	08.MAY.2025
Work Location:	Burjesia Halliburton Camp Basra - Iraq	Halliburton Doc. (Visual Procedure D00305796 Revision <b>Z</b> )	
Halliburton Doc. (Dimensional Procedure D00301932 Revision <b>M</b> )		Halliburton Doc. (MPI Procedure D00976850 Revision <b>E</b> )	

### TEST EQUIPMENT & CONSUMABLE DETAILS

WHITE CONTRAST WCP-2	Batch #: 230408 Manufacture: Magnaflux Exp Date: APRIL,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#: 230604 Manufacture: Magnaflux Exp Date: JUNE.2026	COIL(1200 AMP-TURNS/IN	SR#22650 Cal.09.APR.2025 Cal Due 08.OCT.2025
FLUORESCENT 14HF	Batch #: 230503 Manufacture: Magnaflux Exp Date: MAY.2026	A.C HAND YOKE	SR#201504052 Cal.08.APR.2025 Cal Due 07.OCT.2025
INTENSITY METER	SR# 2722003 Cal.10.APR.2025 Cal Due 09.OCT.2025	UV BLACK LIGHT	SR#87521 Cal.10.APR.2025 Cal Due 09.OCT.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal.09.APR.2025 Cal Due 08.OCT.2025	THREAD PROFILE GAGE	SR#21336 Cal.09.APR.2025 Cal Due 08.OCT.2025 SR#21335 Cal.09.APR.2025 Cal Due 08.OCT.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	UV LIGHT INTENSITY:	3190 μw/cm <sup>2</sup>
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity:	3680 Lux

### MAGNITISUM DIRECTION (LONGITUDENAL)

METHODOLOGY:	<ul style="list-style-type: none"> <li>• Through Visual inspection</li> <li>• Dimensional Inspection</li> </ul>	<ul style="list-style-type: none"> <li>•MPI inspection with Ultraviolet light</li> </ul>
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Serial No.	Description	Connection		Result Inspection			Dimensional 3 Inspection												
		Pin	Box	Pin	Box	Body	Pin					Box					Body		
							OD(In)	ID(In)	Neck ϕ(In)	Pin λ(In)	Bevel ϕ(In)	OD(In)	CB ϕ(In)	CB ϕ(In)	BB ϕ(In)	BB ϕ(In)	Bevel ϕ(In)	Fish Nick λ (In)	Overall λ (In)
MCC-2, 14244064	CONNECTOR SUB	-	3 1/2 IF	-	Acc.	Acc.	-	-	-	-	-	4 11/16"	4 1/16"	5/8"	-	-	4 21/32"	9 1/2"	38 1/2"



Conclusion:	■ 01 Connector Sub was found "Acceptable" At time of Inspection Ready For Use.
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**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>ϕ</b> Diameter	<b>λ</b> Length	<b>ϖ</b> Width	<b>δ</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> No Defects	<b>Red</b> Crack or Extreme Damage.	<b>Blue</b> Damage	<b>Green</b> Seal Damage	<b>Yellow</b> ACFM

Inspector Name:	M.Shahzad Ahmed	Review By					
Qualification:	ASNT Level 3 (MT) 14244064	Senior Inspector:	NAVEED HUSSAIN	Supervisor:	Hani Ali	Customer Name:	ALI Talib HB48903
Signature:						Customer Signature:	
Original - Client Files		Copy - Area Office		QC/FN/FLS/03 Rev.00	Dated: 07 Nov 2021		





## INSPECTION CERTIFICATE FOR CIRCULATION SUB

Client Name:	<b>HALLIBURTON (WPS)</b>	Report No.:	HAL-24-05-MS-WPS-005
Acceptance criteria:	DS-1 Volume 4 Fifth Edition	Date of Inspection:	08.MAY.2025
Work Location:	Burjesia Halliburton Camp Basra - Iraq	Halliburton Doc. (Visual Procedure D00305796 Revision <b>Z</b> )	
Halliburton Doc. (Dimensional Procedure D00301932 Revision <b>M</b> )		Halliburton Doc. (MPI Procedure D00976850 Revision <b>E</b> )	

### TEST EQUIPMENT & CONSUMABLE DETAILS

WHITE CONTRAST WCP-2	Batch #: 230408 Manufacture: Magnaflux Exp Date: APRIL,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#: 230604 Manufacture: Magnaflux Exp Date: JUNE.2026	COIL(1200 AMP-TURNS/IN	SR#22650 Cal.09.APR.2025 Cal Due 08.OCT.2025
FLUORESCENT 14HF	Batch #: 230503 Manufacture: Magnaflux Exp Date: MAY.2026	A.C HAND YOKE	SR#201504052 Cal.08.APR.2025 Cal Due 07.OCT.2025
INTENSITY METER	SR# 2722003 Cal.10.APR.2025 Cal Due 09.OCT.2025	UV BLACK LIGHT	SR#87521 Cal.10.APR.2025 Cal Due 09.OCT.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal.09.APR.2025 Cal Due 08.OCT.2025	THREAD PROFILE GAGE	SR#21336 Cal.09.APR.2025 Cal Due 08.OCT.2025 SR#21335 Cal.09.APR.2025 Cal Due 08.OCT.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	UV LIGHT INTENSITY:	3190 µw/cm <sup>2</sup>
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity:	3680 Lux

### MAGNITISUM DIRECTION (LONGITUDENAL)

METHODOLOGY:	<ul style="list-style-type: none"> <li>• Through Visual inspection</li> <li>• Dimensional Inspection</li> </ul>	<ul style="list-style-type: none"> <li>•MPI inspection with Ultraviolet light</li> </ul>
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Serial No.	Description	Connection		Result Inspection			Dimensional 3 Inspection											
		Pin	Box	Pin	Box	Body	Pin					Box					Body	
							OD(In)	ID(In)	Neck ϕ(In)	Pin λ(In)	Bevel ϕ(In)	OD(In)	CB ϕ(In)	CB ϕ(In)	BB ϕ(In)	BB ϕ(In)		Bevel ϕ(In)
PO-4225, 14244386	CIRCULATION SUB	4 1/2 IF	4 1/2 IF	Acc.	Acc.	Acc.	6 1/2"	2 1/4"	3/8"	4 7/16"	6 5/16"	6 1/2"	5 10/32"	5/8"	-	-	6 5/16"	25 1/2"



Conclusion:	■ 01 Circulation Sub was found "Acceptable" At time of Inspection Ready For Use.
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**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>ϕ</b> Diameter	<b>λ</b> Length	<b>σ</b> Width	<b>δ</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> No Defects	<b>Red</b> Crack or Extreme Damage.	<b>Blue</b> Damage	<b>Green</b> Seal Damage	<b>Yellow</b> ACFM

Inspector Name:	M.Shahzad Ahmed	Review By					
Qualification:	ASNT Level II (MT) (N.V.)	Senior Inspector:	NAVEED HUSSAIN	Supervisor:	Hani Ali	Customer Name:	ALI Talib HB48903
Signature:						Customer Signature:	
Original - Client Files		Copy - Area Office		QC/FN/FLS/03 Rev.00	Dated: 07 Nov 2021		





## INSPECTION CERTIFICATE FOR X-OVER

Client Name:	<b>HALLIBURTON (WPS)</b>	Report No.:	HAL-24-05-MS-WPS-006
Acceptance criteria:	DS-1 Volume 4 Fifth Edition	Date of Inspection:	08.MAY.2025
Work Location:	Burjesia Halliburton Camp Basra - Iraq	Halliburton Doc. (Visual Procedure D00305796 Revision <b>Z</b> )	
Halliburton Doc. (Dimensional Procedure D00301932 Revision <b>M</b> )		Halliburton Doc. (MPI Procedure D00976850 Revision <b>E</b> )	

### TEST EQUIPMENT & CONSUMABLE DETAILS

WHITE CONTRAST WCP-2	Batch #: 230408 Manufacture: Magnaflux Exp Date: APRIL,2026	TECHNICAL DETAILS	Wet Visible Continuous
BLACK INK 7HF	Batch#: 230604 Manufacture: Magnaflux Exp Date: JUNE.2026	COIL(1200 AMP-TURNS/IN	SR#22650 Cal.09.APR.2025 Cal Due 08.OCT.2025
FLUORESCENT 14HF	Batch #: 230503 Manufacture: Magnaflux Exp Date: MAY.2026	A.C HAND YOKE	SR#201504052 Cal.08.APR.2025 Cal Due 07.OCT.2025
INTENSITY METER	SR# 2722003 Cal.10.APR.2025 Cal Due 09.OCT.2025	UV BLACK LIGHT	SR#87521 Cal.10.APR.2025 Cal Due 09.OCT.2025
LEAD GAGE	SR#AH07KF0027 GAEMAKER LG-5003 Cal.09.APR.2025 Cal Due 08.OCT.2025	THREAD PROFILE GAGE	SR#21336 Cal.09.APR.2025 Cal Due 08.OCT.2025 SR#21335 Cal.09.APR.2025 Cal Due 08.OCT.2025
Magnetic Partical Concentration 7 HF	1.2 TO 2.4 ML/100 ML	UV LIGHT INTENSITY:	3190 µw/cm <sup>2</sup>
Magnetic particle concentration flourcent 14 HF	0.1 TO 0.4 ML/100 ML	WMPT Light Intensity:	3680 Lux

### MAGNITISUM DIRECTION (LONGITUDENAL)

METHODOLOGY:	<ul style="list-style-type: none"> <li>• Through Visual inspection</li> <li>• Dimensional Inspection</li> </ul>	<ul style="list-style-type: none"> <li>•MPI inspection with Ultraviolet light</li> </ul>
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Serial No.	Description	Connection		Result Inspection			Dimensional 3 Inspection											
		Pin	Box	Pin	Box	Body	Pin					Box					Body	
							OD(In)	ID(In)	Neck ϕ(In)	Pin λ(In)	Bevel ϕ(In)	OD(In)	CB ϕ(In)	CB ϕ(In)	BB ϕ(In)	BB ϕ(In)		Bevel ϕ(In)
41401	X-OVER	3 1/2 IF	4 1/2 IF	Acc.	Acc.	Acc.	6 1/2"	2 11/16"	3/8"	3 15/16"	4 15/16"	6 1/2"	5 10/32"	5/8"	-	-	6 5/16"	16"



Conclusion:	■ 01 X-Over was found "Acceptable" At time of Inspection Ready For Use.
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**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 Damage.	Blue	Damage	Green	Seal Damage	Yellow	ACFM

Inspector	M.Shahzad Ahmed	Review By									
Qualification:	ASNT Level II (MT)	Senior Inspector:	NAVEED HUSSAIN	Supervisor:	Hani Ali	Customer Name:	ALI Talib HB48903				
Signature:						Customer Signature:					
Original - Client Files		Copy - Area Office		QC/FN/FLS/03 Rev.00		Dated: 07 Nov 2021					

