


17 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.JUNE.2023	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.JUNE.2024	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	WPS-QC-6-23-6	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01384094, D01026300.	
SERIAL NO.	01155479	SAP NO.	12795984	

PROCEDURE

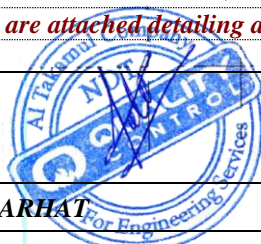
Equipment :	17 INCH SHEAVE BLOCK ASSEMBLY 17 IN- 5/16" - CABLE
SN:	01155479
SAP NO.	12795984
Ref Standard:	API RP 9B / ASTM E709/ASTM E165
Halliburton Document No:	D01384094, D01026300.

Sheave Wheels & Pins with The following specification:.

QTY:	01
Inspection Frequency:	Annually
Wire Rope Diameter:	5/16"
Sheaves Size :	17 Inch

Remarks:

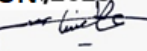
Detailed reports are attached detailing all readings and results in -01 of 05- pages.



ALI Talib HB48903

Date 19,JUN,2023


Signature
Haliburton



Inspector:	AIZAZ FARHAT	Supervisor:	HANI ALI
------------	--------------	-------------	----------



17 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.JUNE.2023	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.JUNE.2024	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	WPS-QC-6-23-6	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01384094, D01026300.	
SERIAL NO.	01155479	SAP NO.	12795984	

PROCEDURE

- The Products Have Been Inspected and Found Them Conformable to Relevant

- 01- Wash thoroughly to remove all of the dirt and mud.
- 02- Does not direct high pressure spray onto the face of bearings to prevent water displacing of the grease.
- 03- Make a visual inspection, check for no evidence of corrosion, cracks or fractures on the wheel frame that undermine its operational capabilities or safety. Inspect the cable groove all around the sheave wheel.
- 04- Using the Sheave Gauge and using as reference the Sheave Groove Inspection guidelines D01026300 determine if the groove is in specifications. If worn too much, it will begin to wear the cable unevenly. The sheave should be changed if this is the case.
- 05- Check that the nameplate is intact and legible.
- 06- Rotate sheave freely and crack for wobble. Any excessive play could indicate a worn or damaged bearing. This must be repaired by replacing the sheave wheel, bearing assembly or the shaft.
- 07- The maximum allowance for reduction of a product's original dimension due to wear or repair before removal from service is:
- 08- Any single direction – No more than 10% of original dimension.
- 09- Two direction – no more than 5% of each dimension.
- 10- Any crack or deformation in a component is sufficient cause to remove from service.
- 11- Deformation in side pates, pins and axles, fitting attachment points, trunnions, etc. deformation can be cause by abusive service and / or overload and may be a cause to remove block or sheave from service.

INSPECTION RESULT

**** Visual, MPI & DPT was carried out on the available critical areas of the Sheaves & Pins and found Accept at the time of inspection**

Remarks:

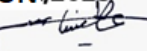
Detailed reports are attached detailing all readings and results in -02 of 05- pages.



ALI Talib HB48903

Date 19,JUN,2023


Signature
Haliburton



Inspector:	AIZAZ FARHAT	Supervisor:	HANI ALI
------------	--------------	-------------	----------



17 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.JUNE.2023	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.JUNE.2024	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	WPS-QC-6-23-6	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01384094, D01026300.	
SERIAL NO.	01155479	SAP NO.	12795984	

Depth Measurements of 17 Inch Sheaves Wheel

SHEAVE NO:	WIRE ROPE DIA:	ACTUAL GROOVE DEPT.	MIN ALLOWABLE GROOVE DEPT	Result
01155479	7.92 mm	14.31 mm	10.533 mm	ACCEPTABLE

Radius Measurements of 17 Inch Sheaves Wheel

SHEAVE NO:	WIRE ROPE DIA:	ACTUAL GROOVE RADIUS.	GROOVE RADIUS MINI WORN.	GROOVE RADIUS MINI NEW.	GROOVE RADIUS MAXI.	Result
01155479	7.92 mm	4.239 mm	4.059 mm	4.194 mm	4.356 mm	ACCEPTABLE

Remarks:

Detailed reports are attached detailing all readings and results in -03 of 05- pages.



ALI Talib HB48903
Date 19,JUN,2023

Signature
Haliburton

Inspector:	AIZAZ FARHAT	Supervisor:	HANI ALI
------------	--------------	-------------	----------



**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



17 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.JUNE.2023	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.JUNE.2024	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	WPS-QC-6-23-6	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01384094, D01026300.	
SERIAL NO.	01155479	SAP NO.	12795984	

Pictorial



Remarks:

Detailed reports are attached detailing all readings and results in -04 of 05- pages.



ALI Talib HB48903

Date 19,JUN,2023

Signature
Haliburton

[Signature]

Inspector: AIZAZ FARHAT

Supervisor:

HANI ALI



**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



17 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.JUNE.2023	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.JUNE.2024	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	WPS-QC-6-23-6	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01384094, D01026300.	
SERIAL NO.	01155479	SAP NO.	12795984	

Pictorial



Remarks:

Detailed reports are attached detailing all readings and results in -05 of 05- pages.



ALI Talib HB48903


Date 19,JUN,2023


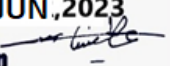
**Signature
Haliburton**

Inspector:	AIZAZ FARHAT	Supervisor:	HANI ALI
-------------------	---------------------	--------------------	-----------------





CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

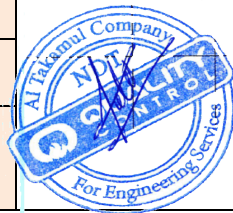
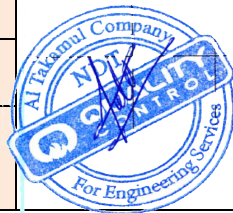
Client:	HALLIBURTON	Report No:	WPS-QC-6-23-6A
Location:	HALLIBURTON WPS	Job Number:	-
Date:	18-6-2023	Next Inspection Date:	17-6-2024
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION		Specification:
		Halliburton Doc	Halliburton Doc. D01982668
		UNIT DESCRIPTION:	17" SHEAVE BLOCK ASSEMBLY
		UNIT S/N:	01155479
		SAP NO:	12795984
		WORKING LOAD	30000 LBS
		INSPECTION RESULT :	
		VISUAL , THOROUGH EXAMINATION	unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage
		MAGNETIC PARTICLE INSPECTION	forgn areas inspected and found free from cracks and other defects
		FINAL RESULTS	unit found satisfactory and free of defects at the time of inspection
		COMMENT:	
Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast			

EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
Equipment:	Astm Test Block	Equipment:	Digital Lux Meter WHITE LIGHT INTENSITY: 1410 lux	Equipment:	AC/DC Yoke PERMANET HAND MAGNETIC	INSPECTOR NAME:		SENIOR INSPECTOR:	MUHAMMAD NAQQASH
S.No:	1657	S.No:	1932401 2722003	S.No:	201504048 USA PYO-019CM (PY-02)	WAQAS AWAN			
Cal Due Date:	18.AUG.2023	Cal Due Date:	18.AUG.2023	Cal Due Date:	18.AUG.2023	QUALIFICATION: ASNT LEVEL II MT & PT & VT		SUPERVISOR:	HANI ALI
FLUORESCENT 14HF		Magnaflux	Batch No:	220306	EXPIRE DATE:	MARCH,2025	STAMP & SIGNATURE:	CLIENT:	ALI Talib HB48903 Date 19,JUN,2023 Signature Halliburton 
Whie Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	EXPIRE DATE:	JUN,2025			
TECHNICAL DETAILS		TECH			Black Magnetic Ink Manufacture:7HF				
		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:220605			
		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		EXPIRE DATE:	Jul-25		
Original - Client Files		Copy - Area Office		QC/FN/MPI/065 Rev.00		DATED 07 NOV 2021			

CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION

Client:	HALLIBURTON	Report No:	WPS-QC-6-23-6B	
Location:	HALLIBURTON WPS	Job Number:		
Date:	18-6-2023	Next Inspection Date:	17-6-2024	
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)	Specification:	ASTM E165, ST-GL-HAL-WPS-1705	
		Halliburton Doc	Halliburton Doc. D01384094	
		UNIT DESCRIPTION:	17" SHEAVE	
		UNIT S/N:	01155479	
		SAP NO:	12795984	
		WORKING LOAD	30000 LBS	
		INSPECTION RESULT :		
		VISUAL , THOROUGH EXAMINATION	Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage	
		DYE PENETRANT INSPECTION (DPI)	Grooves areas inspected and found freedom from cracks and other defects	
		FINAL RESULTS	Above Item found satisfactory and free of defects at the time of inspection	
		TECHNICAL DETAILS		
TECHNIQUE 2 - TYPE II VISIBLE, METHOD 'A' WATER -WASHABLE				
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes	
Test Part Temperature:	83 °F	WHITE LIGHT INTENSITY:	1410 LUX	



EQUIPMENT DETAILS						PERSONNEL DETAILS		REVIEW BY	
EQUIPMENT :	COMPARATOR BLOCK	EQUIPMENT :	Digital Lux Meter	EQUIPMENT :	INFRARED THERMOMETER	INSPECTOR NAME:	WAQAS AWAN	SENIOR INSPECTOR:	MUHAMMAD NAQQASH
S.N.:	11223	S.N.:	2722003	S.N.:	201704125	QUALIFICATION:	ASNT LEVEL II MT, PT, VT, UT	SUPERVISOR:	HANI ALI
Cal Due Date:	18,AUG,2023	Cal Due Date:	20,AUG,2023	Cal Due Date:	20,AUG,2023	SIGNATURE: 		CLIENT: ALI Talib HB48903 Date 19,JUN,2023 Signature Haliburton	
Red Penetrant Manufacture:	Magnaflux	Batch No:	220511	EXPIRE DATE:	May,2025				
Developer Manufacture:	Magnaflux	Batch No:	220302	EXPIRE DATE:	March,2025				
WATER PRESSURE	30 PSI	P. GAUGE	SSR825	DUE CAL DATE:	18,AUG,2023				

Original - Client Files Copy - Area Office QC/FN/DPI/NDT/022 Rev.00 Dated: 07 Nov 2021