



30 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	28.JULY.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	27.JULY.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-05-WPS-001B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01982668, D01026300.	
SERIAL NO.	SHEAVE-3960	SAP NO	12978102	

PROCEDURE

Equipment :	30 INCH SHEAVE BLOCK ASSEMBLY 30 IN-15/32-CABLE
SN:	SHEAVE-3960
SAP NO:	12978102
Ref Standard:	API RP 9B / ASTM E709/ASTM E165
Halliburton Document No:	D01982668, D01026300.

Sheave Wheels & Pins with The following specification:.

QTY:	01
Inspection Frequency:	Annually
Rated Capacity:	30000 LBS
Wire Rope Diameter:	15/32"
Sheaves Size :	30 Inch

Remarks:

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

ALI Talib HB48903

Date: 29/07/2024

Signature
Halliburton

HANI ALI

Inspector:

RAO SHAHIL

Supervisor:



**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



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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- Check the operation of the Guard Door (30")
- 08- Rotate clevis swivel to ensure operation.
- 09- Check the bolts and frame for damage.
- 10- Mount – Clevis – Finished- sheave – 30 Inch performed Dye penetrant / Magnetic Particle Inspection. Replace if it fails the dye penetrant / MPI Testing.
- 11- Visually Inspect Locknut, Clevis, Shaft, 30 IN Sheave for any cracks or corrosion or ware.
- 12- Visually inspect shaft- Clevis- Threaded-Sheave-30 IN for cracks, corrosion or bending

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.

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Signature
Halliburton

Inspector: RAO SHAHIL

Supervisor:

HANI ALI





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Depth Measurements of 30 Inch Sheaves Wheel

SHEAVE NO:	WIRE ROPE DIA:	ACTUAL GROOVE DEPT.	MIN ALLOWABLE GROOVE DEPT	Result
SHEAVE-3960	11.90mm	45.90 mm	15.827 mm	ACCEPTABLE

Radius Measurements of 30 Inch Sheaves Wheel

SHEAVE NO:	WIRE ROPE DIA:	ACTUAL GROOVE RADIUS.	GROOVE RADIUS MINI WORN.	GROOVE RADIUS MINI NEW.	GROOVE RADIUS MAXI.	Result
SHEAVE-3960	11.90mm	6.43 mm	6.09 mm	6.307mm	6.545mm	ACCEPTABLE

Remarks:

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



ALI Talib HB48903

Date: 29/07/2024

Signature
Halliburton

Inspector: RAO SHAH

Supervisor:

HANI ALI



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SERIAL NO.	SHEAVE-3960	SAP NO	12978102	

Pictorial



Remarks:

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

Ali Talib HB48903

Date: 29/07/2024

Signature
 Halliburton

Inspector:

RAO SHAH

Supervisor:

HANI ALI



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Pictorial



Remarks:

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

ALI Talib HB48903

Date: 29/07/2024

Signature
 Haliburton

Inspector: RAO SHAHL

Supervisor:

HANI ALI



CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (WPS)	Report No:	QC-24-05-WPS-001A
Location:	HALLIBURTON WORKSHOP WPS	Job Number:	280724
Date:	Sunday, July 28, 2024	Next Inspection Date:	Sunday, July 27, 2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)

	Halliburton Doc	Halliburton Doc. D01982668
	UNIT DESCRIPTION:	30" SHEAVE BLOCK ASSEMBLY
	UNIT S/N:	SHEAVE-3960
	SAP NO:	12978102
	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:	AC-Yoke Test Block	Equipment:	Digital Lux Meter		Equipment:	AC/DC Yoke		INSPECTOR NAME: M.Shahzad Ahmed		SENIOR INSPECTOR:	ASHRAF ELSAID
S.No:	1657	S.No:	2722003		S.No:	201504052				SUPERVISOR:	HANI ALI
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24		Cal Due Date:	14-Oct-24				CLIENT:	ALI Talib HB48903 Date: 29/07/2024 Signature:  Haliburton
Black Magnetic Ink Manufacture:		Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025					
Whie Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	Expiry Date:	JUN,2025					
Technical Details:		Magnetic Partical Concentration		Method		WMPT Light Intensity		STAMP & SIGNATURE:			
		1.2 to 2.4 ml/100 ml		wet magnetic Particle Testing (WMMPT)		3630 Lux					
Original - Client Files		Copy - Area Office		QC/FN/MP1/065		Rev.00		DATED 07 Nov 2021			

Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 Nov 2021

Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021



Corporate Partner



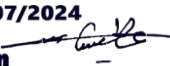
Address: Noth Rumaila, Al Takamul Yard
Contact: +9647810009138

Tel: +9647810009138 / +9647834964657

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

AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION										
Client:	HALLIBURTON (WPS)				Report No:	QC-24-05-WPS-001				
Location:	HALLIBURTON WORKSHOP WPS				Job Number:	280724				
Date:	Sunday, July 28, 2024				Next Inspection Date:	Sunday, July 27, 2025				
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)				ACCEPTANCE CRITERIA	ASTM E165/E165M ,ASTM E1417/E1417M ,EN ISO 3452-1,EN ISO 3452-2				
					Halliburton Doc	Halliburton Doc. D01982668				
					UNIT DESCRIPTION:	30" SHEAVE				
					UNIT S/N:	SHEAVE-3960				
					SAP NO:	12978102				
					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:	118 °F		WHITE LIGHT INTENSITY:	3550 LUX						
EQUIPMENT DETAILS						PERSONNEL DETAILS		REVIEW BY		
EQUIPMENT :	COMPARATOR BLOCK	EQUIPMENT :	Digital Lux Meter	EQUIPMENT :	INFRARED THERMOMETER	INSPECTOR NAME:	M.Shahzad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	
S.N:	11223	S.N:	2722003	S.N:	201704125	QUALIFICATION:	ASNT LEVEL II MT & PT& VT & UT	SUPERVISOR:	HANI ALI	
Cal Due Date:	16,OCT,2024	Cal Due Date:	16,OCT,2024	Cal Due Date:	16,OCT,2024		CLIENT:	ALI Talib HB48903 Date: 29/07/2024 Signature: 		
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,2024					
Original - Client Files						Copy - Area Office		QC/FN/DPI/NDT/022 Rev.00 Dated: 07 Nov 2021		