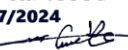


AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq



CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION										
Client:	HALLIBURTON (WPS)			Report No:	QC-24-07-WPS-003					
Location:	HALLIBURTON WORKSHOP WPS			Job Number:	250724					
Date:	25.JULY.2024			Next Inspection Date:	24.JULY.2025					
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)			Specification:	ASTM E165, ST-GL-HAL-WPS-1705					
				Halliburton Doc	Halliburton Doc.D02213619					
				UNIT DESCRIPTION:	16" SHEAVE					
				UNIT S/N:	S-3761-10					
				SAP NO:	11914533					
				WORKING LOAD	7200 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:		114 °F		WHITE LIGHT INTENSITY:		3550 LUX				
EQUIPMENT DETAILS						PERSONNEL DETAILS		REVIEW BY		
EQUIPMENT :	COMPARATOR BLOCK	EQUIPMENT :	Digital Lux Meter	EQUIPMENT :	INFRARED THERMOMETER		INSPECTOR NAME:	RAO SOHAIL		
S.N:	11223	S.N:	2722003	S.N:	201704125		QUALIFICATION:	ASNT LEVEL II MT & PT& VT & UT		
Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24			SENIOR INSPECTOR:		NAVEED HUSSAIN
Red Penetrant Manufacture:	Magnaflux	Batch No:	220511	EXPIRE DATE:	May,2025			SUPERVISOR:		HANI ALI
Developer Manufacture:	Magnaflux	Batch No:	220302	EXPIRE DATE:	March,2025			CLIENT:		ALI Talib HB48903 Date: 26/07/2024 Signature  Halliburton
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

CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (WPS)	Report No:	QC-24-07-WPS-003A
Location:	HALLIBURTON WORKSHOP WPS	Job Number:	250724
Date:	25.JULY.2024	Next Inspection Date:	24.JULY.2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)	Specification:	ASTM E709, ST-GL-HAL-WPS-1705
		Halliburton Doc	Halliburton Doc. D02213619
		UNIT DESCRIPTION:	16" SHEAVE BLOCK ASSEMBLY
		UNIT S/N:	S-3761-10
		SAP NO:	11914533
		WORKING LOAD	7200 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:		SENIOR INSPECTOR:	NAVEED HUSSEIN
S.No:	1657	S.No:	2722003	S.No:	201504052	ASHRAF ELSAID			
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24			SUPERVISOR:	HANI ALI
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025	QUALIFICATION			
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN.2025	ASNT LEVEL II			
Technical Details:	Magnetic Partical Concentration	Method		WMPT Light Intensity		STAMP & SIGNATURE:		CLIENT:	ALI Talib HB48903
	1.2 to 2.4 ml/100 ml	wet magnetic Particle Testing (A/MPT)		3630 Lux					Date: 26/07/2024
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					



16 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	25.JULY.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	24.JULY.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-07-WPS-003B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D02213619	
SERIAL NO.	S-3761-10	SAP NO	11914533	

PROCEDURE

Equipment :	16 INCH SHEAVE BLOCK ASSEMBLY 16 IN-0.125"-CABLE
SN:	S-3761-10
SAP NO:	11914533
Ref Standard:	API RP 9B / ASTM E709/ASTM E165
Halliburton Document No:	D02213619

Sheave Wheels & Pins with The following specification:.

QTY:	01
Inspection Frequency:	Annually
Rated Capacity:	7200 LBS
Wire Rope Diameter:	0.125"
Sheaves Size :	16 Inch

Remarks:

Detailed reports are attached detailing all readings and results in -01 of 04- pages.

ALi Talib HB48903

Date: 26/07/2024

Signature
Haliburton

Inspector: RAO SOEIL

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



16 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	25.JULY.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	24.JULY.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-07-WPS-003B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D02213619	
SERIAL NO.	S-3761-10	SAP NO	11914533	

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 plates, 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 04- pages.

ALI Talib HB48903

Date: 26/07/2024

Signature
Halliburton

Inspector:	RAO SOEIL	Supervisor:	HANI ALI
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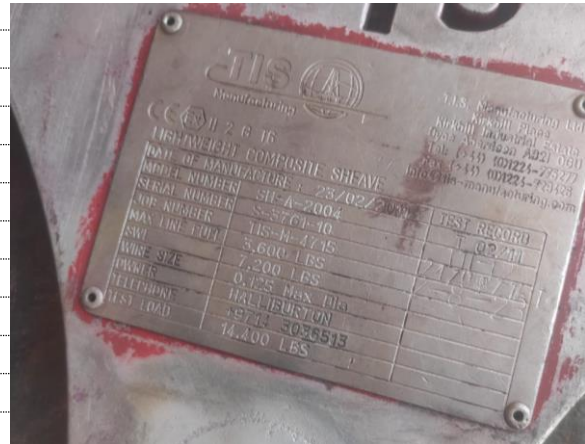
Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com



16 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	25.JULY.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	24.JULY.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-07-WPS-003B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D02213619	
SERIAL NO.	S-3761-10	SAP NO	11914533	

Pictorial



Remarks:

Detailed reports are attached detailing all readings and results in -03 of 04- pages.

ALI Talib HB48903

Date: 26/07/2024

Signature
Haliburton

Inspector: RAO SOEIL

Supervisor:

HANI ALI



16 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	25.JULY.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	24.JULY.2025	
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Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D02213619	
SERIAL NO.	S-3761-10	SAP NO	11914533	

Pictorial



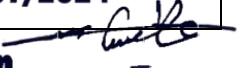
Remarks:

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

ALI Talib HB48903

Date: 26/07/2024

Signature
Haliburton



Inspector: RAO SOE IL

Supervisor:

HANI ALI

