

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:	SL16-1898
		SAP NO:	13226837
		WORKING LOAD	6,000 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: ASHRAF ELSAID		SENIOR INSPECTOR:	NAVEED HUSSEIN
S.No:	1657	S.No:	2722003		S.No:	201504052				
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24		Cal Due Date:	14-Oct-24				
Black Magnetic Ink Manufacture:		Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025	QUALIFICATION ASNT LEVEL II MT & PT & VT		SUPERVISOR:	HANI ALI
Whie Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	Expiry Date:	JUN.2025			CLIENT:	ALI Talib HB48903 Date: 26/07/2024 Signature Haliburton
Technical Details:		Magnetic Partical Concentration		Method		WMPT Light Intensity	STAMP & SIGNATURE:			
		1.2 to 2.4 ml/100 ml		wet magnetic Particle Testing (A/MPT)		3630 Lux				
Original - Client Files Copy - Area Office QC/FN/MPI/065 Rev.00 DATED 07 Nov 2021										

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-002B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D02213619	
SERIAL NO.	SL16-1898	SAP NO	13226837	

PROCEDURE

Equipment :	16 INCH SHEAVE BLOCK ASSEMBLY 16 IN-0.125"-CABLE
SN:	SL16-1898
SAP NO:	13226837
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:	6,000 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-002B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D02213619	
SERIAL NO.	SL16-1898	SAP NO	13226837	

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
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	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-07-WPS-002B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D02213619	
SERIAL NO.	SL16-1898	SAP NO	13226837	

Pictorial



Remarks:

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

ALI Talib HB48903

Date: 26/07/2024

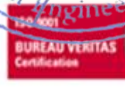
Signature
Haliburton

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	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-07-WPS-002B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D02213619	
SERIAL NO.	SL16-1898	SAP NO	13226837	

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 SOEIL

Supervisor:

HANI ALI



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:	SL16-1898				
				SAP NO:	13226837				
				WORKING LOAD	6,000 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	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-24	Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24			CLIENT:	ALI Talib HB48903 Date: 26/07/2024 Signature Halliburton
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	