

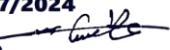



AL TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED
Basra, North Rumaila, Quality Control Yard - Iraq




CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION									
Client:	HALLIBURTON (WPS)				Report No:	QC-24-07-25-WPS-001			
Location:	HALLIBURTON WORKSHOP WPS				Job Number:	250724			
Date:	28.JULY.2024				Next Inspection Date:	27.JULY.2025			
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)				Specification:	ASTM E165			
					Halliburton Doc	Halliburton Doc. D02213619			
					UNIT DESCRIPTION:	17" SHEAVE			
					UNIT S/N:	G2S17-0005			
					SAP NO:	12802921			
					WORKING LOAD	20000 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		SIGNATURE:	CLIENT:	ALI Talib HB48903 Date: 29/07/2024 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	

CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON (WPS)	Report No:	QC-24-07-25-WPS-002
Location:	HALLIBURTON WORKSHOP WPS	Job Number:	250724
Date:	28.JULY.2024	Next Inspection Date:	27.JULY.2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)	Specification:	ASTM E709

	Halliburton Doc	Halliburton Doc. D02213619
	UNIT DESCRIPTION:	17' SHEAVE BLOCK ASSEMBLY
	UNIT S/N:	G2S17-0005
	SAP NO:	12802921
	WORKING LOAD	20000 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	QUALIFICATION		SUPERVISOR:	HANI ALI
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	ASNT LEVEL II		CLIENT:	ALI Talib HB48903
Black Magnetic Ink Manufacture:	Magnaflux	Batch No:	220605	Expiry Date:	JULY.2025	MT & PT & VT			Date: 29/07/2024
Whie Contrast Paint Manufacture:	Magnaflux	Batch No:	220602	Expiry Date:	JUN.2025				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

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



17 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-24-07-28-WPS-003	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	Halliburton Doc. D02213619	
SERIAL NO.	'G2S17-0005	SAP NO	12802921	

PROCEDURE

Equipment :	17 INCH SHEAVE BLOCK ASSEMBLY
SN:	'G2S17-0005
SAP NO:	12802921
Ref Standard:	API RP 9B / ASTM E709/ASTM E165
Halliburton Document No:	. Halliburton Doc. D02213619

Sheave Wheels & Pins with The following specification:.

QTY:	01
Inspection Frequency:	Annually
Rated Capacity:	20000 LBS
Wire Rope Diameter:	7/32"
Sheaves Size :	17 Inch

Remarks:

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

ALI Talib HB48903

Date: 29/07/2024

Signature
Halliburton

Inspector: RAO SOE IL

Supervisor:

HANI ALI



**ALI 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:	28.JULY.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	27.JULY.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-07-28-WPS-003	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	Halliburton Doc. D02213619	
SERIAL NO.	'G2S17-0005	SAP NO	12802921	

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: 29/07/2024

Signature
Halliburton

Inspector:	RAO SOEIL	Supervisor:	HANI ALI
------------	-----------	-------------	----------



17 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-24-07-28-WPS-003	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	Halliburton Doc. D02213619	
SERIAL NO.	'G2S17-0005	SAP NO	12802921	

Remarks:

Pictorial


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



Ali Talib HB48903

Date: 29/07/2024

Signature
 Haliburton



Inspector:	RAO SOE IL	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:	28.JULY.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	27.JULY.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-07-28-WPS-003	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	Halliburton Doc. D02213619	
SERIAL NO.	'G2S17-0005	SAP NO	12802921	

Pictorial



Remarks:

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



ALI Talib HB48903

Date: 29/07/2024

Signature
Haliburton

Inspector:	RAO SOE IL	Supervisor:	HANI ALI
------------	------------	-------------	----------

