


30 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.SEP.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.SEP.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-SEP-HALL-WPS-004B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01982668, D01026300.	
SERIAL NO.	'SHEAVE-4165	SAP NO.	12768835	

PROCEDURE

Equipment :	30 INCH SHEAVE BLOCK ASSEMBLY 30 IN-15/32-CABLE
SN:	'SHEAVE-4165
SAP NO.	12768835
Ref Standard:	API RP 9B / ASTM E709/ASTM E165
Halliburton Document No:	D01982668, D01026300.

Sheave Wheels & Pins with The following specification.:

QTY:	One
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 06- pages.

Name of Inspector: NAVEED & SHAZAD	Name of person authenticating this report: RAO SOHAN	Signature & Stamp:
QUALIFICATION: ASNT LEVEL II		ALI Talib HB48903
MT & PT& VT & UT		Date: 17-09-2024 Signature Haliburton 



30 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.SEP.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.SEP.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-SEP-HALL-WPS-004B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01982668, D01026300.	
SERIAL NO.	'SHEAVE-4165	SAP NO.	12768835	

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 -01 of 06- pages.

Name of Inspector: NAVEED & SHAZAD	Name of person authenticating this report: RAO SOHAN	Signature & Stamp:
QUALIFICATION: ASNT LEVEL II		ALI Talib HB48903 Date: 17-09-2024 Signature  Halliburton
MT & PT & VT & UT		



30 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.SEP.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.SEP.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-SEP-HALL-WPS-004B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01982668, D01026300.	
SERIAL NO.	'SHEAVE-4165	SAP NO.	12768835	

Depth Measurements of 30 Inch Sheaves Wheel

SHEAVE DIM:	WIRE ROPE DIA:	ACTUAL GROOVE DEPT.	MIN ALLOWABLE GROOVE DEPT	Result
	11.90mm	45.63 mm	15.827 mm	ACCEPTABLE

Radius Measurements of 30 Inch Sheaves Wheel


SHEAVE DIM:	WIRE ROPE DIA:	ACTUAL GROOVE RADIUS.	GROOVE RADIUS MINI WORN.	GROOVE RADIUS MINI NEW.	GROOVE RADIUS MAXI.	Result
	11.90mm	6.431 mm	6.09 mm	6.307mm	6.545mm	ACCEPTABLE

Remarks:

Detailed reports are attached detailing all readings and results in -01 of 06- pages.

Name of Inspector: NAVEED & SHAZAD	Name of person authenticating this report: RAO SOHAN	Signature & Stamp:
QUALIFICATION: ASNT LEVEL II		ALI Talib HB48903 Date: 17-09-2024 Signature  Halliburton
MT & PT& VT & UT		

30 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.SEP.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.SEP.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-SEP-HALL-WPS-004B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01982668, D01026300.	
SERIAL NO.	'SHEAVE-4165	SAP NO.	12768835	

PARTICLES IMAGES



Remarks:

Detailed reports are attached detailing all readings and results in -01 of 06- pages.

Name of Inspector: NAVEED & SHAZAD	Name of person authenticating this report: RAO SOHAN	Signature & Stamp:
QUALIFICATION: ASNT LEVEL II		ALI Talib HB48903 Date: 17-09-2024 Signature  Halliburton
MT & PT & VT & UT		

**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

30 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.SEP.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.SEP.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-SEP-HALL-WPS-004B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01982668, D01026300.	
SERIAL NO.	'SHEAVE-4165	SAP NO.	12768835	

PARTICLES IMAGES



Remarks:

Detailed reports are attached detailing all readings and results in -01 of 06- pages.

Name of Inspector: NAVEED & SHAZAD	Name of person authenticating this report: RAO SOHAN	Signature & Stamp:
QUALIFICATION: ASNT LEVEL II		ALI Talib HB48903 Date: 17-09-2024 Signature
MT & PT& VT & UT		Halliburton



AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED

Basra, North Rumaila, Quality Control Yard - Iraq
 Tel: +9647810009138 / +9647834964657

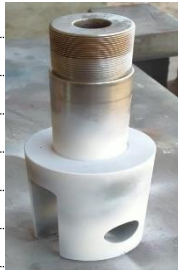


Email: OP@qualitycontrol-iraq.com / hany.akafi@qualitycontrol-iraq.com

30 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	17.SEP.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	16.SEP.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-SEP-HALL-WPS-004B	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01982668, D01026300.	
SERIAL NO.	'SHEAVE-4165	SAP NO.	12768835	

PARTICLES IMAGES



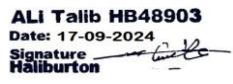


Remarks:

Detailed reports are attached detailing all readings and results in -01 of 06- pages.

Name of Inspector: NAVEED & SHAZAD	Name of person authenticating this report: RAO SOHAN	Signature & Stamp:
QUALIFICATION: ASNT LEVEL II		ALI Talib HB48903 Date: 17-09-2024
MT & PT& VT & UT		Signature Haliburton






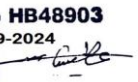
CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION											
Client:		HALLIBURTON WPS			Report No:		WPS-QC-24-SEP-004A				
Location:		WPS WORKSHOP			Job Number:		20240917				
Inspection Date:		Tuesday, September 17, 2024			Next Inspection Date:		Tuesday, September 16, 2025				
Type Of Inspection:		VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)			Specification:		ASTM E165, D01982668, D01026300				
 		Halliburton Doc		Halliburton Doc. D01982668							
		UNIT DESCRIPTION:		30" SHEAVE							
		UNIT S/N:		SHEAVE-4165							
		SAP NO:		12768835							
		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)		forgn 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:		107 °F		WHITE LIGHT INTENSITY:		3500 LUX					
EQUIPMENT DETAILS					PERSONNEL DETAILS			REVIEW BY			
EQUIPMENT :		COMPARATOR BLOCK		EQUIPMENT :		Digital Lux Meter		EQUIPMENT :		INFRARED THERMOMETER	
S.N:		11223		S.N:		2722003		S.N:		201704125	
Cal Due Date:		16,OCT,2024		Cal Due Date:		16,OCT,2024		Cal Due Date:		16,OCT,2024	
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		PRESSURE GAUGE		SSR825		DUE CAL DATE:		16,OCT,2024	
INSPECTOR NAME:		RAO SOHAIL		QUALIFICATION:		ASNT LEVEL II MT & PT& VT & UT		SIGNATURE:			
SENIOR INSPECTOR:		NAVEED HUSSAIN		SUPERVISOR:		HANI ALI		CLIENT:			
CLIENT:		ALI Talib HB48903 Date: 17-09-2024 Signature Halliburton									

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:	WPS-QC-24-SEP-004
Location:	WPS WORKSHOP	Job Number:	20240917
Inspection Date:	Tuesday, September 17, 2024	Next Inspection Date:	Tuesday, September 16, 2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 , D01026300

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Halliburton Doc</td> <td>Halliburton Doc. D01982668</td> </tr> <tr> <td>UNIT DESCRIPTION:</td> <td>30" SHEAVE BLOCK ASSEMBLY</td> </tr> <tr> <td>UNIT S/N:</td> <td>SHEAVE-4165</td> </tr> <tr> <td>SAP NO:</td> <td>12768835</td> </tr> <tr> <td>WORKING LOAD</td> <td>30000 LBS</td> </tr> <tr> <td colspan="2" style="text-align: center;">INSPECTION RESULT :</td> </tr> <tr> <td style="color: blue;">VISUAL , THOROUGH EXAMINATION</td> <td>unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage forgn areas inspected</td> </tr> <tr> <td style="color: blue;">MAGNETIC PARTICLE INSPECTION</td> <td>and found free from cracks and other defects</td> </tr> <tr> <td style="color: blue;">FINAL RESULTS</td> <td>unit found satisfactory and free of defects at the time of inspection</td> </tr> </table>	Halliburton Doc	Halliburton Doc. D01982668	UNIT DESCRIPTION:	30" SHEAVE BLOCK ASSEMBLY	UNIT S/N:	SHEAVE-4165	SAP NO:	12768835	WORKING LOAD	30000 LBS	INSPECTION RESULT :		VISUAL , THOROUGH EXAMINATION	unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage forgn areas inspected	MAGNETIC PARTICLE INSPECTION	and found free from cracks and other defects	FINAL RESULTS	unit found satisfactory and free of defects at the time of inspection
Halliburton Doc	Halliburton Doc. D01982668																		
UNIT DESCRIPTION:	30" SHEAVE BLOCK ASSEMBLY																		
UNIT S/N:	SHEAVE-4165																		
SAP NO:	12768835																		
WORKING LOAD	30000 LBS																		
INSPECTION RESULT :																			
VISUAL , THOROUGH EXAMINATION	unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage forgn areas inspected																		
MAGNETIC PARTICLE INSPECTION	and found free from cracks and other defects																		
FINAL RESULTS	unit found satisfactory and free of defects at the time of inspection																		
	<p>COMMENT:</p> <p style="text-align: center;">Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast (MPI Wet Fluorescent inspection Thread With UltraViolet Light)</p>																		

EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
Equipment:	AC-Yoke Test Block	Equipment:	Digital Lux Meter	Equipment:	AC/DC Yoke	INSPECTOR NAME: RAO SOHAIL		SENIOR INSPECTOR:	NAVEED HUSSAIN
S.No:	1657	S.No:	2722003	S.No:	201504052			QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:
Cal Due Date:	14-Oct-24	Cal Due Date:	16-Oct-24	Cal Due Date:	14-Oct-24	STAMP & SIGNATURE:		CLIENT:	ALI Talib HB48903 Date: 17-09-2024 Signature Halliburton
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					
	1.2 to 2.4 ml/100 ml	Wet Magnetic Particle Testing (WMPT)		3500 Lux					

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