


### 30 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	26.MAY.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	25.MAY.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-4160	SAP NO	13559146	

#### PROCEDURE

Equipment :	30 INCH SHEAVE BLOCK ASSEMBLY 30 IN-15/32-CABLE
SN:	SHEAVE-4160
SAP NO:	13559146
Ref Standard:	API RP 9B / ASTM E709/ASTM E165
Halliburton Document No:	D01982668, D01026300.

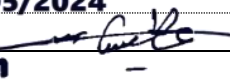
Sheave Wheels & Pins with The following specification:

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

**ALI Talib HB48903**

Date: 27/05/2024

Signature  
Haliburton



Remarks:

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


Inspector: **RAO SHAHIL**

Supervisor:

**HANI ALI**



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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**

**ALI Talib HB48903**

**Date: 27/05/2024**

**Signature**   
**Haliburton**


**Remarks:**

*Detailed reports are attached detailing all readings and results in -02 of 05- pages.*

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-4160	11.90mm	45.56 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-4160	11.90mm	6.390 mm	6.09 mm	6.307mm	6.545mm	ACCEPTABLE

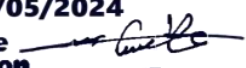
**Remarks:**

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**ALI Talib HB48903**

**Date: 27/05/2024**


**Signature  
Haliburton**




Inspector:	RAO SHAH	Supervisor:	HANI ALI
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Pictorial



**ALI Talib HB48903**

**Date: 27/05/2024**

**Signature**   
**Halliburton**

**Remarks:**

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


**Inspector:** **RAO SHAHIL**

**Supervisor:**

**HANI ALI**



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Pictorial



**ALI Talib HB48903**

**Date: 27/05/2024**

**Signature**   
**Haliburton**

**Remarks:**

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

**Inspector:** **RAO SHAHIL**

**Supervisor:**

**HANI ALI**



CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION											
<b>Client:</b>	HALLIBURTON (WPS)				<b>Report No:</b>	QC-24-05-WPS-001					
<b>Location:</b>	HALLIBURTON WORKSHOP WPS				<b>Job Number:</b>	260524					
<b>Date:</b>	Sunday, May 26, 2024				<b>Next Inspection Date:</b>	Sunday, May 25, 2025					
<b>Type Of Inspection:</b>	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)				<b>ACCEPTANCE CRITERIA</b>	ASTM E165/E165M ,ASTM E1417/E1417M ,EN ISO 3452-1,EN ISO 3452-2					
					<b>Halliburton Doc</b>	Halliburton Doc. D01982668					
					<b>UNIT DESCRIPTION:</b>	30" SHEAVE					
					<b>UNIT S/N:</b>	SHEAVE-4160					
					<b>SAP NO:</b>	13559146					
					<b>WORKING LOAD</b>	30000 LBS					
					<b>INSPECTION RESULT :</b>						
<b>VISUAL , THOROUGH EXAMINATION</b>					Above Item fully inspected and found freedom from deforms, cracks, corrosion & mechanical damage						
<b>DYE PENETRANT INSPECTION (DPI)</b>					Grooves areas inspected and found freedom from cracks and other defects						
<b>FINAL RESULTS</b>					Above Item found satisfactory and free of defects at the time of inspection						
<b>TECHNICAL DETAILS</b>											
TECHNIQUE 2 - TYPE II VISIBLE, METHOD 'A' WATER -WASHABLE											
<b>PENETRANT DWELL TIME:</b>		30 minutes		<b>DEVELOPER DWELL TIME:</b>		15 minutes					
<b>Test Part Temperature:</b>		90 °F		<b>WHITE LIGHT INTENSITY:</b>		3550 LUX					
<b>EQUIPMENT DETAILS</b>					<b>PERSONNEL DETAILS</b>			<b>REVIEW BY</b>			
<b>EQUIPMENT :</b>	COMPARATOR BLOCK	<b>EQUIPMENT :</b>	Digital Lux Meter	<b>EQUIPMENT :</b>	INFRARED THERMOMETER			<b>INSPECTOR NAME:</b>	M. Shahzad Ahmed	<b>SENIOR INSPECTOR:</b>	NAVEED HUSSAIN
<b>S.N:</b>	11223	<b>S.N:</b>	2722003	<b>S.N:</b>	201704125			<b>QUALIFICATION:</b>	ASNT LEVEL II MT & PT& VT & UT	<b>SUPERVISOR:</b>	HANI ALI
<b>Cal Due Date:</b>	16,OCT,2024	<b>Cal Due Date:</b>	16,OCT,2024	<b>Cal Due Date:</b>	16,OCT,2024				<b>CLIENT:</b>	<b>ALI Talib HB48903</b> Date: 27/05/2024 Signature Haliburton	
<b>Red Penetrant Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220511	<b>EXPIRE DATE:</b>	May,2025						
<b>Developer Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220302	<b>EXPIRE DATE:</b>	March,2025						
<b>WATER PRESSURE</b>	30 PSI	<b>P. GAUGE</b>	SSR825	<b>DUE CAL DATE:</b>	18,AUG,2024						
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

<b>Client:</b>	HALLIBURTON	<b>Report No:</b>	QC-26-05-WPS-001A
<b>Location:</b>	HALLIBURTON WORKSHOP WPS	<b>Job Number:</b>	260524
<b>Date:</b>	Sunday, May 26, 2024	<b>Next Inspection Date:</b>	Sunday, May 25, 2025
<b>Type Of Inspection:</b>	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	<b>Specification:</b>	ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)
		<b>Halliburton Doc</b>	Halliburton Doc. D01982668
		<b>UNIT DESCRIPTION:</b>	30" SHEAVE BLOCK ASSEMBLY
		<b>UNIT S/N:</b>	SHEAVE-4160
		<b>SAP NO:</b>	13559146
		<b>WORKING LOAD</b>	30000 LBS
<b>INSPECTION RESULT :</b>			
<b>VISUAL , THOROUGH EXAMINATION</b>		unit fully inspected and found free from deforms, cracks, corrosion & mechanical damage	
<b>MAGNETIC PARTICLE INSPECTION</b>		forgn areas inspected and found free from cracks and other defects	
<b>FINAL RESULTS</b>		unit found satisfactory and free of defects at the time of inspection	
<b>COMMENT:</b>			
Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast			

EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
<b>Equipment:</b>	AC-Yoke Test Block	<b>Equipment:</b>	Digital Lux Meter	<b>Equipment:</b>	AC/DC Yoke	<b>INSPECTOR NAME:</b> M.Shahzad Ahmed		<b>SENIOR INSPECTOR:</b>	ASHRAF ELSAID
<b>S.No:</b>	1657	<b>S.No:</b>	2722003	<b>S.No:</b>	201504052			<b>QUALIFICATION</b> ASNT LEVEL II MT & PT & VT	<b>SUPERVISOR:</b>
<b>Cal Due Date:</b>	14-Oct-24	<b>Cal Due Date:</b>	16-Oct-24	<b>Cal Due Date:</b>	14-Oct-24	<b>STAMP &amp; SIGNATURE:</b>		<b>CLIENT:</b>	<b>Ali Talib HB48903</b> Date: 27/05/2024 Signature:
<b>Black Magnetic Ink Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220605	<b>Expiry Date:</b>	JULY,2025				
<b>Whie Contrast Paint Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220602	<b>Expiry Date:</b>	JUN,2025				
<b>Technical Details:</b>	<b>Magnetic Partical Concentration</b>	<b>Method</b>		<b>WMPT Light Intensity</b>					
	1.2 to 2.4 ml/100 ml	wet magnetic Particle Testing (AM/MT)		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					