


### 30 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	<b>HALLIBURTON (WPS )</b>	Date of Inspection:	17.SEP.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	<b>16.SEP.2025</b>	
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.	'SHEV-4165	SAP NO.	12768835	

#### PROCEDURE

Equipment :	30 INCH SHEAVE BLOCK ASSEMBLY 30 IN-15/32-CABLE
SN:	'SHEV-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		<b>ALI Talib HB48903</b>
MT & PT& VT & UT		Date: 17-09-2024 Signature Haliburton 



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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

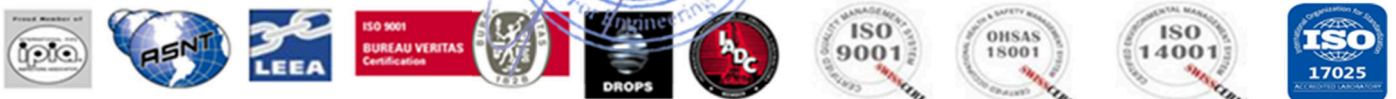
**\*\* Visual, MPI & DPT was carried out on the available critical areas of the Sheaves & Pins**

**and found Accept at the time of inspection**


**Remarks:**

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MT & PT & VT & UT		Date: 17-09-2024 Signature <i>Ali Talib</i> <b>Haliburton</b>



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**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

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**PARTICLES IMAGES**



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<b>Type Of Inspection:</b>	EXTENDED MAINTENANCE CHECKS	<b>Report No.:</b>	QC-24-SEP-HALL-WPS-004B	
<b>Speciation:</b>	API RP 9B / ASTM E709/ASTM E165	<b>Halliburton Document No:</b>	D01982668, D01026300.	
<b>SERIAL NO.</b>	'SHEV-4165	<b>SAP NO.</b>	12768835	

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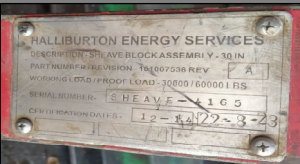



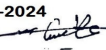


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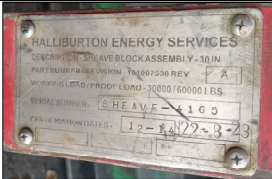


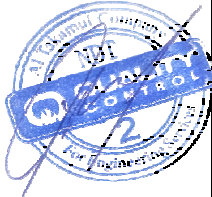
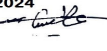
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<b>QUALIFICATION:</b> ASNT LEVEL II		<b>ALI Talib HB48903</b>
<b>MT &amp; PT&amp; VT &amp; UT</b>		<b>Date: 17-09-2024</b> <b>Signature Haliburton</b>

### CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

<b>Client:</b>	HALLIBURTON WPS	<b>Report No:</b>	WPS-QC-24-SEP-004	
<b>Location:</b>	WPS WORKSHOP	<b>Job Number:</b>	20240917	
<b>Inspection Date:</b>	Tuesday, September 17, 2024	<b>Next Inspection Date:</b>	Tuesday, September 16, 2025	
<b>Type Of Inspection:</b>	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION		<b>Specification:</b>	ASTM E709 , D01026300
 		<b>Halliburton Doc</b>	Halliburton Doc. D01982668	
		<b>UNIT DESCRIPTION:</b>	30" SHEAVE BLOCK ASSEMBLY	
		<b>UNIT S/N:</b>	SHEV-4165	
		<b>SAP NO:</b>	12768835	
		<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 (MPI Wet Fluorescent inspection Thread With UltraViolet Light)				
<b>EQUIPMENT DETAILS</b>				
<b>Equipment:</b>	AC-Yoke Test Block	<b>Equipment:</b>	Digital Lux Meter	
<b>S.No:</b>	1657	<b>S.No:</b>	2722003	
<b>Cal Due Date:</b>	14-Oct-24	<b>Cal Due Date:</b>	16-Oct-24	
<b>Black Magnetic Ink Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220605	
<b>Whie Contrast Paint Manufacture:</b>	Magnaflux	<b>Batch No:</b>	220602	
<b>Equipment:</b>	AC/DC Yoke	<b>Expiry Date:</b>	JULY,2025	
<b>S.No:</b>	201504052	<b>Expiry Date:</b>	JUN,2025	
<b>Cal Due Date:</b>	14-Oct-24	<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 (WMPT)	3500 Lux	
<b>PERSON DETAILS</b>				
<b>INSPECTOR NAME:</b>	RAO SOHAIL		<b>SENIOR INSPECTOR:</b>	NAVEED HUSSAIN
<b>QUALIFICATION:</b>	ASNT LEVEL II MT & PT & VT		<b>SUPERVISOR:</b>	HANI ALI
<b>STAMP &amp; SIGNATURE:</b>			<b>CLIENT:</b>	<b>ALI Talib HB48903</b> Date: 17-09-2024 Signature:  Halliburton

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

CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION														
<b>Client:</b>	HALLIBURTON WPS				<b>Report No:</b>	WPS-QC-24-SEP-004A								
<b>Location:</b>	WPS WORKSHOP				<b>Job Number:</b>	20240917								
<b>Inspection Date:</b>	Tuesday, September 17, 2024				<b>Next Inspection Date:</b>	Tuesday, September 16, 2025								
<b>Type Of Inspection:</b>	VISUAL , THOROUGH EXAMINATION & DYE PENETRANT INSPECTION (DPI)				<b>Specification:</b>	ASTM E165, D01982668, D01026300								
 					<b>Halliburton Doc</b>	Halliburton Doc. D01982668								
					<b>UNIT DESCRIPTION:</b>	30" SHEAVE								
					<b>UNIT S/N:</b>	SHEAVE-4165								
					<b>SAP NO:</b>	12768835								
					<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>					forgn 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>		107 °F		<b>WHITE LIGHT INTENSITY:</b>		3500 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>	RAO SOHAIL	<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>SIGNATURE:</b>	<b>CLIENT:</b>	<b>Ali Talib HB48903</b> Date: 17-09-2024 Signature  Halliburton			
<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>PRESSURE GAUGE</b>	SSR825	<b>DUE CAL DATE:</b>	16,OCT,2024									