


30 INCH SHEAVE BLOCK ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	27.APRIL.2024	
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	26.APRIL.2025	
Type Of Inspection:	EXTENDED MAINTENANCE CHECKS	Report No.:	QC-24-APR-HALL-WPS-002	
Speciation:	API RP 9B / ASTM E709/ASTM E165	Halliburton Document No:	D01982668, D01026300.	
SERIAL NO.	'SHEV-3703	SAP NO.	12795995	

PROCEDURE


Equipment :	30 INCH SHEAVE BLOCK ASSEMBLY 30 IN-15/32-CABLE
SN:	'SHEV-3703
SAP NO.	12795995
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: SHRAF ELSAID	Signature & Stamp:
QUALIFICATION: ASNT LEVEL II		ALI Talib HB48903 Date:27-04-2024 Signature  Halliburton
MT & PT & VT & UT		



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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**

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**AI TAKAMUL COMPANY FOR ENGINEERING TESTS
AND PROFESSIONAL SAFETY LIMITED**

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



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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-3703	11.90mm	45.68 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-3703	11.90mm	6.431 mm	6.09 mm	6.307mm	6.545mm	ACCEPTABLE


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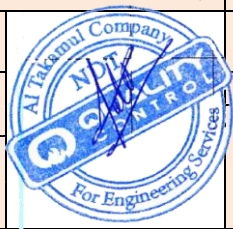
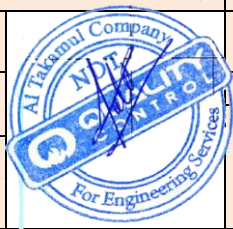


CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION

Client:	HALLIBURTON WPS	Report No:	QC-24-APR- HALL-WPS-001A
Location:	WPS WORKSHOP	Job Number:	QC-23-04-HALL-037
Inspection Date:	Saturday, April 27, 2024	Next Inspection Date:	Saturday, April 26, 2025
Type Of Inspection:	VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION	Specification:	ASTM E709 , D01026300

	Halliburton Doc	Halliburton Doc. D01982668
	UNIT DESCRIPTION:	30" SHEAVE BLOCK ASSEMBLY
	UNIT S/N:	SHEV-3703
	SAP NO:	12795995
	WORING 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
	COMMENT:	
Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast (MPI Wet Fluorescent inspection Thread With UltraViolet Light)		

EQUIPMENT DETAILS						PERSON DETAILS		REVIEW BY	
EQUIPMENT :	AC/DC HAND Yoke	EQUIPMENT :	Shooting Coil DC	EQUIPMENT :	UV BLACK LIGHT: 3070 μw/cm ²	INSPECTOR NAME: M.Shahzad Ahmed		SENIOR INSPECTOR:	NAVEED HUSSAIN
S.NO:	201504052	S.NO:	22650	S.NO:	1898977			QUALIFICATION: ASNT LEVEL II MT & PT & VT	SUPERVISOR:
Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	Cal Due Date:	12.AUG.2024	STAMP & SIGNATURE:		CLIENT:	ALI Talib HB48903 Date:27-04-2024 Signature Haliburton
FLUORESCENT 14HF		Magnaflux	Batch No:	220306	EXPIRE DATE:			MARCH,2025	
Whie Contrast Paint Manufacture:		Magnaflux	Batch No:	220602	EXPIRE DATE:			JUN,2025	
Digital Lux Meter WHITE LIGHT INTENSITY:		TECHNICAL DETAILS			Black Magnetic Ink Manufacture:7HF				
3620 Lux/S.NO:2722003		Wet FLUORESCENT Particle Concentration 14 HF	0.1 to 0.4 ml/100 ml		Batch No:220605				
Cal Due Date:14.AUG.2024		Black Magnetic Ink Concentration 7 HF	1.2 to 2.4 ml/100 ml		EXPIRE DATE:	Jul-25			
Original - Client Files		Copy - Area Office		QC/FN/MPI/065 Rev.00 DATED 07 NOV 2021					

CERTIFICATION OF VISUAL THOROUGH EXAMINATION & DYE PENETRANT INSPECTION																			
Client:		HALLIBURTON WPS			Report No:		WPS-QC-4-24-01B												
Location:		WPS WORKSHOP			Job Number:		27042024												
Inspection Date:		Saturday, April 27, 2024			Next Inspection Date:		Saturday, April 26, 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:		SHEV-3703												
					SAP NO:		12795995												
					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:		101 °F		WHITE LIGHT INTENSITY:		3510 LUX													
EQUIPMENT DETAILS					PERSONNEL DETAILS			REVIEW BY											
EQUIPMENT :		COMPARATOR BLOCK		EQUIPMENT :		Digital Lux Meter		EQUIPMENT :		INFRARED THERMOMETER		INSPECTOR NAME:		M. Shahzad		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:		12,AUG,2024		Cal Due Date:		14,AUG,2024		Cal Due Date:		14,AUG,2024						CLIENT: ALI Talib HB48903 Date:27-04-2024 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,2024									
Original - Client Files					Copy - Area Office					QC/FN/DPI/NDT/022 Rev.00 Dated: 07 Nov 2021									