

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” SHEAVE BLOCK ASSEMBLY ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	08.AUG.2025
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	07.AUG.2026
Job No.:	08082025	Report No.:	QC-WPS-25-0508/069
Working Load:	30,000 LBS	SAP NO.	12768842
Wire Rope Diameter	15/32”	SERIAL NO:	SHEAVE-3931

Type Of Inspection:	Visual & Dimension Checks & Magnetic Particle Inspection , Dye Penetrant Inspection
Ref Standard:	API RP 9B / ASTM E709-21/ASTM E165-23
Halliburton Document number:	D01982668 , D01026300

30 INCH SHEAVE BLOCK ASSEMBLY INSPECTION PROCEDURE

- Wash thoroughly to remove all of the dirt and mud.
- Does not direct high pressure spray onto the face of bearings to prevent water displacing of the grease.
- 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.
- 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.
- Check that the nameplate is intact and legible
- 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.
- Check The Operation Of The Guard Door.
- Rotate Clevis Swivel To Ensure Operation.
- Check The Bolts And Frame For Damage .
- Mount – Clevis – Finished- sheave – 30 Inch performed Dye penetrant / Magnetic Particle Inspection. Replace if it fails the dye penetrant / MPI Testing.
- Visually Inspect Locknut, Clevis, Shaft, 30 IN Sheave for any cracks or corrosion or ware.
- Visually inspect shaft- Clevis- Threaded–Sheave–30 IN for cracks, corrosion or bending

Name of Inspector:	Signature & Stamp:	Name of person authenticating this report:	Customer Name , Signature
M.SHAHZAD AHMED		HANY ALI	ALI Talib HB48903 Date: 08-08-2025 Signature
QUALIFICATION: ASNT LEVEL II: MT & PT& VT & UT			



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Depth Measurements of 30 Inch Sheaves Wheel

WIRE ROPE DIA:	ACTUAL GROOVE DEPT.	MIN ALLOWABLE GROOVE DEPT	Result
11.90 mm	47.32 mm	15.827 mm	ACCEPTABLE

Radius Measurements of 30 Inch Sheaves Wheel

WIRE ROPE DIA:	ACTUAL GROOVE RADIUS.	GROOVE RADIUS MINI WORN.	GROOVE RADIUS MINI NEW.	GROOVE RADIUS MAXI.	Result
11.90 mm	6.393 mm	6.09 mm	6.307 mm	6.545 mm	ACCEPTABLE

30” SHEAVE PICTORIAL



INSPECTION RESULT

INSPECTION RESULT	Result
1-Visual & Dimension Checks (found free from deforms, cracks, Wear, corrosion & mechanical damage)	ACCEPTABLE
2-Dye Penetrant Inspection (Welds & forgn areas free from cracks and other defects)	ACCEPTABLE

Equipment & Technical Details

Equipment	Serial No.	CAL DUE DATE	Calibration	MANUFACTURE	BATCH NO	EXPIRE DATE	
Digital Lux Meter WHITE LIGHT	2722003	9-Oct-25	Red Penetrant	Magnaflux	230606	June,2026	
COMPARATOR BLOCK	11223	8-Oct-25					
INFRARED THERMOMETER	201704125	7-Oct-25	Developer	Magnaflux	230608	June,2026	
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes	WHITE LIGHT INTENSITY:	3580 lux	TEST PART TEMPERATURE	104 °F

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30” SHEAVE BLOCK ASSEMBLY MPI PICTORIAL



INSPECTION RESULT

	Result
1-Visual Inspection (found free from deforms, cracks, Wear, corrosion & mechanical damage)	ACCEPTABLE
2-Magnetic Particle Inspection (Welds & forgn areas free from cracks and other defects)	ACCEPTABLE

Equipment & Technical Details

Equipment	Serial No.	CAL DUE DATE	Expire Date	Material	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	9-Oct-25		White Contrast WCP-2			
AC YOKE	201504052	7-Oct-25			Magnaflux	230408	APRIL,2026
ASTM Test Block:	1657	7-Oct-25		Black Magnetic Ink 7HF	Magnaflux	230604	JUNE, 2026

Name of Inspector:	Signature & Stamp:	Name of person authenticating this report:	Customer Name , Signature
M.SHAHZAD AHMED		HANY ALI	ALI Talib HB48903 Date:08-08-2025 Signature
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