

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



17 INCH SHEAVE WHEEL ASSEMBLY ANNUALLY INSPECTION CERTIFICATE

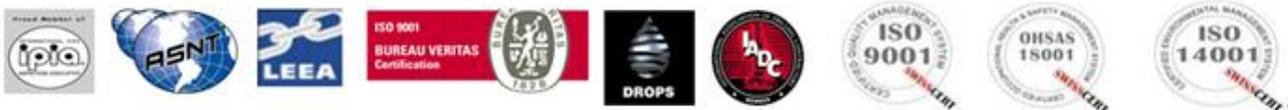
Customer:	HALLIBURTON (WPS)	Date of Inspection:	05.AUG.2025
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	04.AUG.2026
Job No.:	05082025	Report No.:	QC-WPS-25-0508/058
Work Order:	*****	SAP NO.	13559139
Working Load:	6.00 Ton	SERIAL NO:	41819020
ManuFature:	Mckissick	Wire Rope Diameter	5/16"

Type Of Inspection:	Visual & Dimension Checks & MPI , DPI
Ref Standard:	API RP 9B / ASTM E709-21/ASTM E165-23
Halliburton Document number:	D01384094

17 INCH SHEAVE WHEEL 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 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.
- The maximum allowance for reduction of a product’s original dimension due to wear or repair before removal from service is:
 - Any crack or deformation in a component is sufficient cause to remove from service.
 - Deformation in side pates, pins and axles, fitting attachment points, trunnions, etc. deformation can be cause by abusive service and / or overload and may be a cause to remove block or sheave from service.

Name of Inspector:	Signature & Stamp:	Name of person authenticating this report:	Customer Name , Signature
M.SHAHZAD AHMED		HANY ALI	ALI Talib HB48903 Date: 06-08-2025 Signature Halliburton
QUALIFICATION: ASNT LEVEL II: MT & PT& VT & UT			



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Depth Measurements of 17 Inch Sheave Wheel

WIRE ROPE DIA:	ACTUAL GROOVE DEPT.	MINIMUM ALLOWABLE GROOVE DEPT	Result
5/16" – 7.92 MM	13.81 MM	10.533 MM	ACCEPTABLE

Radius Measurements of 17 Inch Sheave Wheel

WIRE ROPE DIA:	ACTUAL GROOVE RADIUS.	GROOVE RADIUS MINIMUM WORN.	GROOVE RADIUS MINIMUM NEW.	GROOVE RADIUS MAXI.	Result
5/16" – 7.92 MM	4.256 MM	4.059 MM	4.197 MM	4.356 MM	ACCEPTABLE

17" SHEAVE WHEEL PICTORIAL



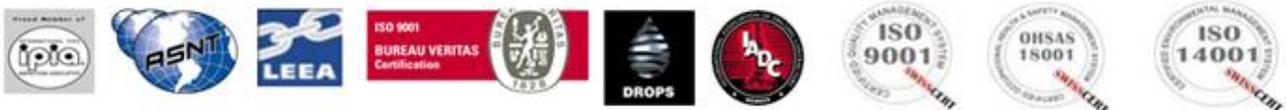
INSPECTION RESULT

INSPECTION RESULT	Result
1- Visual & Dimension Checks (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	Material	MANUFACTURE	BATCH NO	EXPIRE DATE
Digital Lux Meter WHITE LIGHT	2722003	9-Oct-25	White Contrast WCP-2	MANUFACTURE		
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

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17" SHEAVE ASSEMBLY MPI PICTORIAL



INSPECTION RESULT

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

Equipment & Technical Details

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

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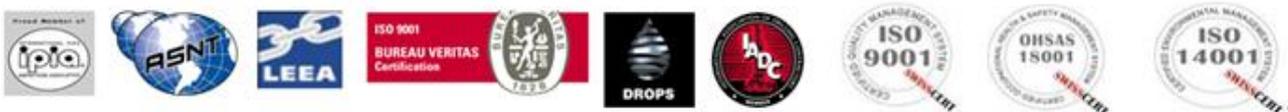
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17" SHEAVE ASSEMBLY DPI PICTORIAL



INSPECTION RESULT							Result
1- Visual Inspection (found free from deforms, cracks, Wear, corrosion & mechanical damage)							ACCEPTABLE
2-Dye Penetrant Inspection (forgn areas free from cracks and other defects)							ACCEPTABLE
Equipment & Technical Details							
Digital Lux Meter WHITE LIGHT	2722003	CAL DUE DATE	9-Oct-25	Red Penetrant	MANUFACTURE	BATCH NO	EXPIRE DATE
COMPARATOR BLOCK	11223	CAL DUE DATE	8-Oct-25		Magnaflux	230606	June,2026
INFRARED THERMOMETER	201704125	CAL DUE DATE	7-Oct-25	Developer	Magnaflux	230608	June,2026
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes	WHITE LIGHT INTENSITY:	3610 lux	TEST PART TEMPERATURE	107 °F

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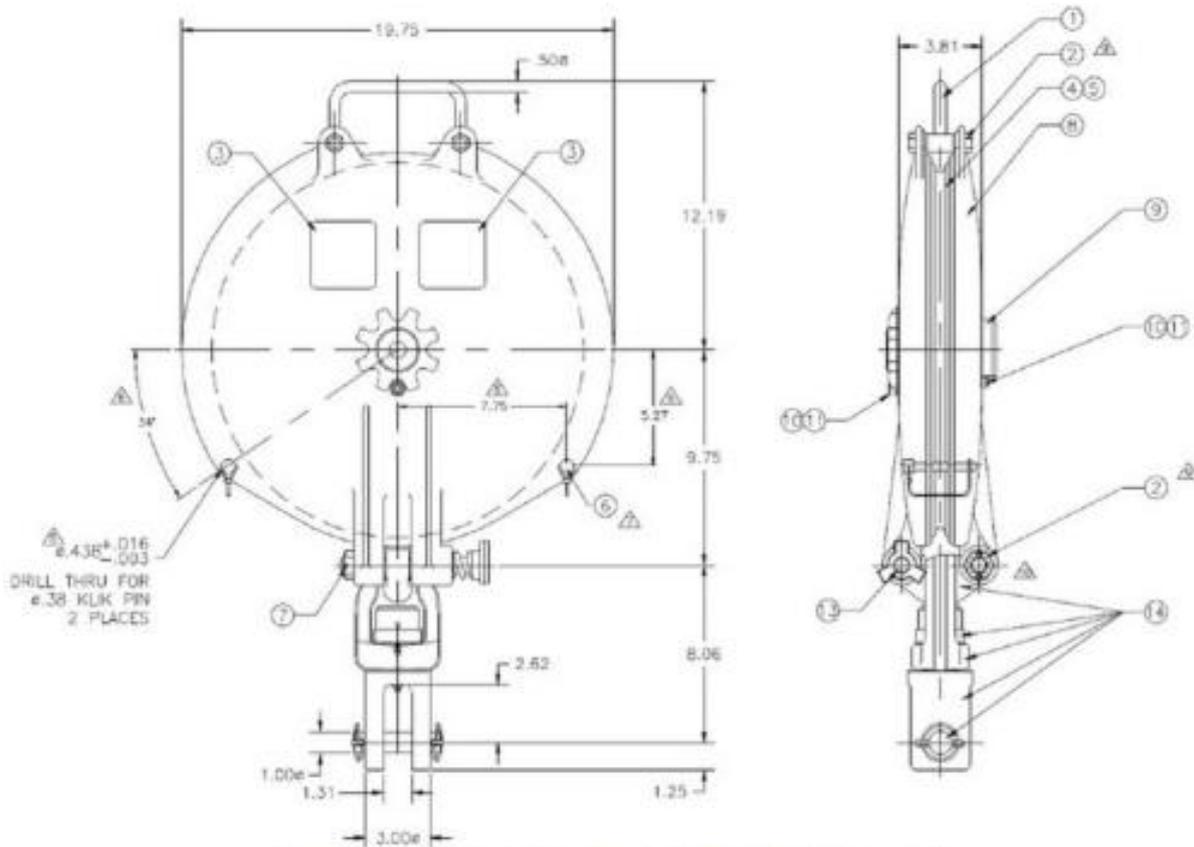




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17" SHEAVE WHEEL ASSEMBLY SKETCH



Sheave, 17 Inch Diameter, 5/16 Cable (Universal)

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M.SHAHZAD AHMED		HANY ALI	ALI Talib HB48903 Date: 06-08-2025 Signature
QUALIFICATION: ASNT LEVEL II: MT & PT& VT & UT			

