

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



16 INCH RELAY DSL SHEAVE ASSEMBLY ANNUALLY INSPECTION CERTIFICATE

Customer:	HALLIBURTON (WPS)	Date of Inspection:	01.July.2025
Location:	Burjesia Halliburton Basra -Iraq	Next Date of Inspection:	30.June.2026
Type Of Inspection:	Visual & Dimension Checks & MPI , DPI	Report No.:	QC-WPS-25-0102/069
Ref Standard:	API RP 9B / ASTM E709/ASTM E165	Document number:	D02213619
SERIAL NO:	SL-16-1896	SAP NO.	13226836
Rated Capacity:	6,000 LBS	Wire Rope Diameter	0.125"
Model:	SH-A-2004	Max Line Pull	3.600 LBS

INSPECTION PROCEDURE (LIGHT WEIGHT COMPOSITE SHEAVE)

MANUFACTURER: TIS

- 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 **D02213619** 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: 02-07-2025 Signature
QUALIFICATION: ASNT LEVEL II: MT & PT & VT & UT			



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Depth Measurements of 16 Inch Sheaves Wheel

WIRE ROPE DIA:	ACTUAL GROOVE DEPT.	MIN ALLOWABLE GROOVE DEPT	Result
0.125" -3 .18 MM	19.12 MM	0.166" (4.21MM)	ACCEPTABLE

Radius Measurements of 16 Inch Sheaves Wheel

WIRE ROPE DIA:	ACTUAL GROOVE RADIUS.	GROOVE RADIUS MINI WORN.	GROOVE RADIUS MINI NEW.	GROOVE RADIUS MAXI.	Result
0.125" -3 .18 MM	1.668 MM	1.629 MM	1.685 MM	1.749 MM	ACCEPTABLE

SHEAVE PICTORIAL



INSPECTION RESULT

INSPECTION RESULT	RESULT
1-Visual & Dimension Checks (found free from deforms, cracks, Wear & mechanical damage)	ACCEPTABLE

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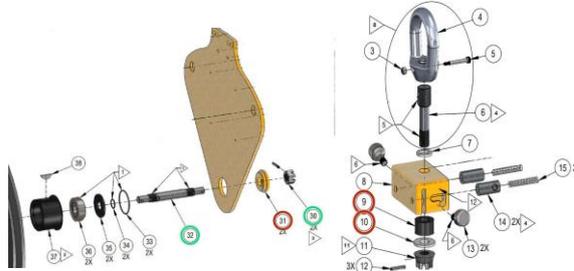
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RELAY DSL SHEAVE ASSY FULL PICTORIAL



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
3-Dye Penetrant Inspection 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	White Contrast WCP-2	MANUFACTURE		EXPIRE DATE	
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	
COMPARATOR BLOCK	11223	8-Oct-25	Red Penetrant	Magnaflux	230606	June,2026	
INFRARED THERMOMETER	201704125	7-Oct-25	Developer	Magnaflux	230608	June,2026	
PENETRANT DWELL TIME:	30 minutes	DEVELOPER DWELL TIME:	15 minutes	WHITE LIGHT INTENSITY:	3640 lux	TEST PART TEMPERATURE	104 °F

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