Al Takamul Company for Engineering Services Quality Control – Iraq

AIR WINCH CERTIFICATE OF THOROUGH EXAMINATION

This Certificate complies with the requirements of the Lifting Equipment Operations and Lifting Equipment Regulations.

Client:	Daqing Drilling Company		
Location:	DQ Rig 038	Certificate No:	QC-B-11-25-0738-01
Date of Examination:	21-Nov-2025	Job Order No:	QC-B-11-25-0738
Date of Next Examination:	20-May-2026	Equipment Serial No:	13 07 105
Last Examination Date:	28/04/2025	Safe Working Load (SWL):	600 KG
Description of Equipment	Air Winch Monkey Board Manufacture: Ingersoll Rand Model: LS2-600R-PH2M-CE Year of Manufacture: 2013 Capacity: 600 Kg at 5rd Layer of Dia Rope: 6.5 mm Working Pressure: 5 To 7 bar Full Load Hoisting Speed: 20m/min Wire Serial No: S01 Wire Diameter: 6.5 mm Location: Monkey Board Winch	Load Applied: 580 Kg	
Ref. Standard	ASME B30.7:2021 & Client Req		

Last Load Test Date:	28/04/2025	Next Proof Load Test Date:	After any Repair or Modifications

Examination Type	Pass	Fail	Notes
Operational (No Load)	☑		Pneumatic Air Winch Found Satisfactory for Further Use.
Performance Test (Rated Capacity)	☑		The Air Winch was found to be acceptable for lifting 100% of the SWL.
Proof Load Test (1.25 x Rated Capacity)	---		Proof Load Test Shall Be Done After any Repair/ Modification.

Is this the first examination after Installation or assembly at a new site or location?	YES		NO	√	Was the examination carried out?			
					Within an interval of 6 months?	YES	√	NO	
					With an interval of 12 months?	YES		NO	√
If the answer to the above question is YES, has the equipment been installed correctly?	YES		NO		By an examination scheme?	YES	√	NO	
					After the occurrence of exceptional circumstances?	YES		NO	√

Identification of any part found to have a defect which is or could become a danger to persons and a description of the defect: (If none, state NONE)
NONE

Is the above a defect that is of immediate danger to persons?	YES		NO	√
Is the above a defect that is not yet, but could become a danger to persons (If YES, state the date by which)	N/A			

Particulars of any repair, renewal, or alteration required to remedy the defect identified above:

Particulars of any tests carried out as part of the examination: (If none, state NONE)
In light of the inspection findings, the air winch was visually and operationally inspected, and a performance test was performed, during which no defects were observed. Hence, it was found satisfactory and fit for the intended use.

IS THIS EQUIPMENT SAFE TO OPERATE?	YES	√	NO	

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdullah	

THIS IS TO CERTIFY THAT: a competent person did attend the owner-mentioned work location on the date shown above, and the Equipment described in this report was tested & inspected as per the requirements of the Lifting Operations and Lifting Equipment Regulation (LOLER). The result was found Satisfactory at the time of Inspection and considered Safe for Lifting.

AIR WINCH CHECKLIST

No	COMPONENT CHECKS	RESULT	COMMENTS
1	Manufacturers data plate	✓	
2	Space Bars and End Covers	✓	
3	Controls/ Operational Controls	✓	
4	Brakes/ Clutch	✓	
5	Wire Rope Drum	✓	
6	Wire Rope anchor	✓	
7	Termination Plate	✓	
8	Wire Rope	✓	
9	Hydraulic Hoses	✓	
10	Air System	✓	
11	Operation	✓	
12	Foundation & Bolts	✓	
13	Main winch Wire Rope	✓	
14	Brake	✓	
15	Fasteners and Bolts	✓	
16	Main Structure and Foundation Welds	✓	
17	Clearance & Obstruction	✓	

Key Category:

1 = Immediate action	2= Action within …	3= Worn/Serviceable	✓	No Apparent Defects	N/A = Not Applicable

Test Methods:		
DESCRIPTION	RESULT	COMMENTS
Functional Testing	✓	
Performance Testing	✓	
Proof Load Test {1.25 X SWL}	--------	

- **Functional Testing:** Carried out without Load on all functions (including brakes and safety devices) and Controls to check correct and smooth operation of equipment, and is free from wear and other damage.
- **Performance Testing:** Carried out after Functional Test and with the rated load (SWL) applied, where Hoist brakes were found satisfactory.
- **Proof Load Test:** Carried out after Performance Test and with the 1.25 x (SWL) applied load, where the Hoist brakes were found satisfactory.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdullah	

Certificate of Conformity (COC)

Item: Wire Rope Sling (Single Leg / Tailor as required)

Reference / Serial No.: COC-WRS-2025-0001

Manufacturer / Supplier: Jiangsu Juli Steel Wire Rope Co., Ltd

Client / End User: STS Marine Technical service

Item Description:

- Material: Steel wire rope
- Construction: 6×19 IWRC (Independent Wire Rope Core) — *standard assumption; change if different*
- Diameter (nominal): **6.5 mm**
- Terminations: Thimble + sleeve swaged / pressed (or other; specify)
- Number of legs: Single-leg (modify if multi-leg)
- Length (overall): 500m

Rated Capacity / Working Load Limit (WLL)

- **Declared WLL: 600 kg**

Design / Safety Basis (assumptions):

- Safety Factor (SF) used for design: **5 : 1** (common industry practice for general-purpose wire rope slings; apply project-specific standard if different).

Minimum Breaking Load (MBL) calculation:

- WLL × SF = MBL
- Step-by-step: 600 × 5 = 3000
- **MBL (calculated): 3,000 kg**

Note: MBL above is the required minimum breaking load based on the chosen safety factor. Verify actual wire rope MBL from manufacturer datasheet and ensure it equals or exceeds this value.

Proof / Load Test

- **Recommended proof test load:** 2 × WLL = 2 × 600 = 1,200 kg.