

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



CERTIFICATE OF THOROUGH EXAMINATION

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

Date of Examination:	20-JUNE-2023	Date of Report:	20-JUNE-2023	Certificate No:	QC-06-23-AA-20/C3		
Client Name:	AMJAD AL ASIMA CO	Location:	AMJAD AL ASIMA YARD	Job Number:	QC-06-23-AA-20		
Equipment Serial No:	436762	Reg No:	A 2784 - BASRA	SWL:	50 TON		
Description of Equipment	Diesel Engine Powered, Hydraulic System, Telescoping Boom Mobile Crane.						
	Model:	TG-500E-3-10304	Manufacture :	TADANO			
	Chasses No:	JNB0KG54T00001053	Year of Mfg. :	2009			
	Max Capacity :	50 TON	Max Boom Length:	10.65 M to 40.0M			
	Main Hoist Capacity :	50 TON	Auxiliary Hoist Capacity :	3.4 TON			
	Main Hoist Rope Dia :	18 mm	Auxiliary Hoist Rope Dia :	18 mm			
Ref. Standard	BS EN 7121-2-3:2012						
Date of Last Examination:	06-12-2022						
MAIN HOOK BLOCK	No. of Falls	Radius (m)	Boom Length (m)	SWL (ton)	Load Applied (ton)		
	12	3.0	10.65	50.0	NIL		
	07	10.0	18.0	11.5	FUNCTIONAL TEST		
	07	12.0	18.0	7.85	7.442		
AUXILIARY HOOK	01	20.0	40.0	3.4	FUNCTIONAL TEST		
Examination Type	Pass	Fail	Notes				
Operational (No Load)	✓		Crane Found Satisfactory For Further Use.				
Performance Test (Rated Capacity)	✓		Crane found to be acceptable to lift 100 % from 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	✓		
If the answer to the above question is YES has the equipment been installed correctly?		YES		NO			
			N/A				
Was the examination carried out: Within an interval of 6 months? With an interval of 12 months? In accordance with an examination scheme? After the occurrence of exceptional circumstances?		YES		NO	✓		
Identification of any part found to have a defect which is or could not become a danger to persons and a description of the defect: (If none State NONE) NONE							
Is the above a defect which is of immediate danger to persons:				YES	NO		
Is the above a defect which is not yet but could become a danger to persons (If YES state the date by when)				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 the light of inspection findings subject Mobile Crane was Inspected visually, operationally and performance test was performed where no defects were observed during testing Hence, it was found satisfactory and fit for intended use.							
IS THIS EQUIPMENT SAFE TO OPERATE?				YES	NO		
Name of Inspector:	Name of person authenticating this report:		Signature & Stamp:				
AIZAZ FARHAT	ASHRAF ELSAID						
Date of Next Through Examination:	19-JUNE-2024						

REV: 01 Dated: 20 June 2022

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



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1. STRUCTURE		
DESCRIPTION	RESULT	COMMENTS
Structure & Data Plate	✓	
Slew Bearing Turn Freely/ Mechanism	✓	
Chassis	✓	
Crane Tires & Nuts	✓	
Outriggers: -		
Hoses	✓	
Extension rams	✓	
Interlocking system	✓	
Connecting Bolts and pins	✓	
Levelling system	✓	
Paint work	✓	
Out rigger pads	✓	
Boom: -		
Condition	✓	
Hydraulic hoses	✓	
Extension rams	✓	
Extension Interlocks	✓	
Boom main hoist ram	✓	
Main hoist ram foot pin	✓	
Electrics		
Switchgear and panels	✓	
Connections / wiring	✓	
Operations	✓	

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2. AUTOMATIC SAFE LOAD INDICATORS AND LIMIT SWITCHES

DESCRIPTION	RESULT	COMMENTS
Radius/ Boom/ Angle Indicators	✓	
Safe Load Indicator & Overload Limit Switch	✓	
Audible & Visual Alarms are operative	✓	
Anti-Two Block Switches Operation	✓	
Position and visibility	✓	

3. HYDRAULIC SYSTEM

DESCRIPTION	RESULT	COMMENTS
Flexible Hoses and Hose Connections	✓	
Hydraulic Cylinder	✓	
Hydraulic Cylinder Fittings	✓	
Hydraulic Filter	✓	
Pump Condition	✓	
Oil Seepage/ Leakage	✓	

4. WIRE ROPES/ FITTINGS/ HOOK BLOCKS/ SHEAVES/ DRUM

DESCRIPTION	RESULT	COMMENTS
Wire Rope Condition	✓	
Rope Reeving on Drum	✓	
Drum Condition	✓	
Hook Block	✓	
Hook Safety Latch	✓	
Sheaves	✓	
Wedge Socket & Dead-End Anchorage Point	✓	
Boom Angle Indicator	✓	

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5. OPERATOR CABIN & GENERAL

DESCRIPTION	RESULT	COMMENTS
Cabin condition	✓	
Visibility	✓	
Seating	✓	
Heat and ventilation	✓	
Manufactures rating charts	✓	
Access and egress	✓	
Control markings	✓	
Control operation	✓	
Windscreen wipers	✓	
Fire Extinguisher Availability	✓	

6. OPERATIONAL TEST

DESCRIPTION	RESULT	COMMENTS
Hoisting Up & Down	✓	
Boom Extraction and Subtraction	✓	
Boom Raising and Lowering	✓	
Slewing Operation & Alarm	✓	
Drum Operation	✓	
Levers Operation (In Operator Cabin)	✓	
Reverse Alarm & Operation	✓	
Lights, Horn & Indicators	✓	

Name of Inspector:	Name of person authenticating this report:	Signature & Stamp	
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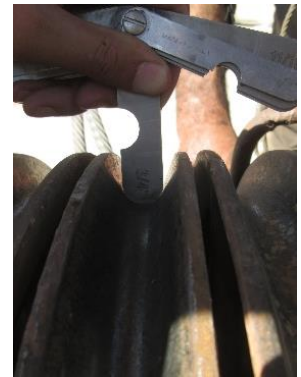
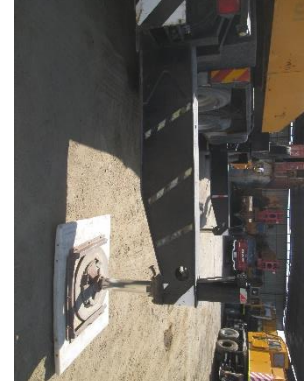


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TG-500E

TOTAL RATED LOADS

UNIT : TONNE

Outriggers extended fully and front jack extended 360°
Outriggers extended fully over-side and over-rear

Working radius (m)	10.65m boom	14.0m boom	18.0m boom	21.6m boom	25.3m boom	32.7m boom	40.0m boom
3.0	66	50.0	73	28.0	79	24.0	
3.5	63	43.0	70	28.0	78	24.0	
4.0	60	38.0	68	28.0	77	24.0	
4.5	57	34.0	66	28.0	76	24.0	
5.0	54	30.2	64	28.0	74	24.0	
5.5	50	27.5	61	26.5	73	23.2	
6.0	46	25.0	59	23.5	71	21.5	
6.5	42	22.7	57	21.8	70	19.9	
7.0	38	20.7	54	20.0	69	18.4	
7.5	33	18.9	51	18.5	67	17.1	
8.0	28	17.4	49	17.0	66	15.9	
9.0	8	14.2	43	14.1	63	13.6	
10.0		36	11.5	51	11.45	65	
11.0		28	9.45	47	9.4	62	
12.0		16	7.85	42	7.85	59	
14.0			31	5.65	45	5.65	
15.0			14	4.1	37	4.05	
18.0				26	2.9	41	
20.0				3	1.9	33	
22.0					23	1.2	
24.0						40	
26.0						34	
28.0							
30.0							
32.0							

Boom angle	9.0m jib			16.0m jib		
	5° tilt	25° tilt	45° tilt	5° tilt	25° tilt	45° tilt
80°	3.5	2.2	1.2	2.3	1.1	0.5
79°	3.5	2.2	1.2	2.3	1.1	0.6
78°	3.5	2.2	1.2	2.3	1.1	0.6
77°	3.32	2.14	1.19	2.18	1.07	0.59
76°	3.13	2.08	1.18	2.06	1.05	0.59
75°	2.97	2.02	1.17	1.96	1.02	0.58
73°	2.68	1.91	1.15	1.78	0.97	0.57
70°	2.33	1.74	1.11	1.56	0.91	0.56
68°	2.15	1.64	1.09	1.44	0.87	0.54
65°	1.91	1.49	1.07	1.27	0.81	0.53
63°	1.78	1.39	1.03	1.18	0.78	0.51
60°	1.6	1.26	1.0	1.06	0.74	0.5
58°	1.3	1.19	0.98	0.98	0.72	0.49
55°	0.9	0.85	0.8	0.7	0.6	0.47
53°	0.7	0.65	0.6	0.55	0.45	0.4
50°	0.4					

Outriggers
Outriggers

Working radius (m)

3.0

3.5

4.0

4.5

5.0

5.5

6.0

6.5

7.0

7.5

8.0

9.0

10.0

11.0

12.0

14.0

15.0

18.0

20.0

22.0

24.0

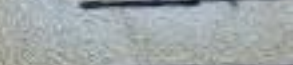
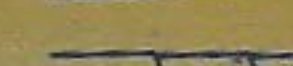
26.0

28.0

30.0

32.0

BOOM LENGTH



NOTES:

- Total rated loads shown in the table are based on the condition that the crane is set on firm ground horizontally. Those above blue line are based on crane strength and those below, on its stability. When performing crane operation without outriggers, employ the ratings in the "Without outriggers" column with ground condition and other factors taken into consideration.
- Total rated loads do not exceed 75% of tipping load.
- Each total rated load includes weight of the hooks (460kg for 50-tonne capacity, 190kg for 12-tonne capacity, and 100kg for 4-tonne capacity) and slings.
- Without front jack extended, when the boom is within the Over-front, total rated loads are different from those for the boom in the Over-side and Over-rear.
- Standard number of part lines for each boom length is as shown below. Load per-line should not surpass 4,200kg for main winch rope and 4,000kg for auxiliary winch rope.

Boom length	10.65m	14.0m	18.0m	21.6m	25.3m	32.7m	40.0m	9.0m jib	16.0m jib
No. of part lines	12	8	7	6	5	4	2	1	1

6. Boom angles are shown in Δ°

7. Special weather caution: Refer to the operation and maintenance manual.

8. When lifting a load of single ton, reduce the main hook weight from the relevant boom total rated