



**10 ton Aurora.**  
**Port crane.**  
**Class B. 206 mtrs.**  
**28.7 mm act dia.**  
**Reel #: R0900051 F**  
**Cert #: 10900035-4**



**ABS GROUP INC.**

The American Standard for Over 135 Years

Report No: ASI/001/05.09/IS/ar

Project No: 2093146

19 MAY 2009

ABU DHABI, UAE

**REGISTERED CERTIFICATE OF TEST AND THOROUGH EXAMINATION OF CRANE**

Name & Address of Owner of the Equipment		SECUNDA MARINE SERVICES LTD. 1 CANAL STREET DARMOUTH, N.S C/O J-RAY MCDERMOTT P.O. BOX 16961 JEBEL ALI DUBAI UAE	
Name & Address of the Maker of the Equipment		AURORA CRANE CORPORATION USA	
Date of Manufacture		1999	
Location of Survey / Inspection		MC DERMOTT JEBEL ALI YARD, DUBAI UAE	
Maker's Serial No.: 68067-090899	Model No.: 60TSC220400	Crane Location: Frame 71-STBD Side onboard MV THEBAUD SEA Main deck	
Equipment Name: ELECTRO-HYDRAULIC OPERATED, TELESCOPIC BOOM TYPE PEDESTAL OFFSHORE CRANE		Boom Holding Lock Device: Hydraulic Valve	
		Reference: Manufacturer's SPECS, API 2C, API RP 2D	

**Safe Working Loads (Proof Testing)**  
In the case of the Equipment with variable operating radius, the safe working load at various radii shall be given. Test loads at various radii should be given in column (iii) and in the case of a safe working which has been calculated without the application of a test load, "NIL" should be entered in that column  
2204 LBS = 1 Tonne = 1000 kg

**Actual Main Block Rigging** : 8 Part Lines (8 Falls)  
: 5 sheaves Block, AHD 30665 Z, Mc kissick  
: Serial No. Z 1663 ; Capacity-225 Tons  
**Wire Rope** : 29mm Dia., Const: 35X7 WSC, RHLL,  
: 2160N/mm<sup>2</sup> Grade, Galvanized finish  
: MBL & Actual Breaking Load: 78.24 Tonnes  
: Factor of Safety: 5:1 with Test Cert #:258594/1/1

**Whipline / Auxillary Line** : Single line (1 fall)  
: Overhaul Ball with Sur-Lock Hook  
**Wire Rope** : 19mm Diameter

**Boom Length** : 60 ft

**Safe Load Indicator Serial No.:** CS.0510  
**Make** : Crane Smart System

**THOROUGH VISUAL EXAMINATION, FUNCTIONAL TEST & LOAD TEST WERE CARRIED OUT SATISFACTORILY AT THE TIME OF INSPECTION**

**NOTE: THE TEST LOADS APPLIED WERE PRESCRIBE AND AS PER CLIENT'S / OWNER'S REQUIREMENTS**

(i) Angle (Degrees)	(ii) Radius (Ft)	(iii) Test Load (Tonnes)	(iv) S W L (Tonnes)
<b>DYNAMIC LOAD TEST</b>			
45	13.91	25	25
42	11.75	30	30
47	8.83	30	30
-	-	-	50
<b>STATIC LOAD TEST</b>			
15	12.10	50	50

In the case of equipment with a derricking jib or jibs, the maximum angle at which the jib or jibs may be worked.: **76 Degrees**

Defects noted and alterations or repairs required before the equipment is put into service (if none enter NONE)  
**NONE**

Last Inspection Date	Next Inspection Due	Last Proof Load Test Date	Next Proof Load Test Due
15.01.2009	18.11.2009	15.01.2009	14.01.2013

09.05.2009  
Date



*(Signature)*  
IRINEO SURIAGA  
Tech. Representative (Signature)

This certificate is granted subject to the condition that is understood and agreed that nothing herein contained shall be deemed to relieve any designer, manufacturer, repairer or operator of any warranty, express or implied and ABS Group Inc. liability shall be limited to the acts or omissions of its employees, agents or subcontractors. Under no circumstances whatsoever shall ABS Group Inc. be liable for injury or damage to any person or property occurring by reason of normal operation or any defect in materials, machinery, equipment or other items other than such defects ascertainable by normally accepted testing standards and upon those items actually inspected by ABS Group Inc. and which are covered by this certificate.

نهاية اللولو، جناح ١٤٠٢، شارع السلام، ص.ب.: ٤٨٣٤١، أبوظبي - أ.ع.م.، هاتف : ٦٧٧١٨٩٧ - ٢ - ٩٧١ +، فاكس : ٦٧٧١٨٩٨ - ٢ - ٩٧١ +  
Centre Building, Suite 1402, Al Salam Street, P.O. Box 48341, Abu Dhabi - U.A.E., Tel : +971-2-6771897, Fax: +971-2-6771898  
SAFETY • QUALITY • ENVIRONMENT  
WEBSITE : www.absconsulting.com



Report No. 101/005/04.09/MA/MA

Project No. 2093146

Date

01.04.09

ABU DHABI, UAE

## Pedestal Mounted Telescopic Boom Hydraulic Crane (50 t "Dynamic") Statement of Fact for Thorough Examination

This is to certify that the undersigned representative of ABSG Consulting Inc. did at the request of J Ray McDermott attend on the "M/V THEBAUD SEA" whilst she lay afloat at alongside J Ray McDermott yard in Jebel Ali, UAE from 3<sup>rd</sup> to 7<sup>th</sup> April 2009 in order to make Thorough Examination of the Crane, detailed as under:

### Equipment Details:

#### **Pedestal Mounted Telescopic Boom Hydraulic Crane**

Manufacturer: AURORA Crane Corporation  
 Serial No.: 98067-090899  
 Model: 60TSNC220400  
 Capacity (Main Block): 50.0 Tonnes (Dynamic) & 100 Tonnes (Static) @24 Ft Radius  
 Capacity (Aux Block): 2.5 Tonnes (Dynamic) & 5.0 Tonnes (Static) @ all Radii  
 Location: "THEBAUD SEA" Main Deck, STBD Side, Frame 71

### Report of Activity:

After reviewing the previous documents, a thorough examination of the Crane was conducted and the factual condition of the equipment is reported as under.

### Hoist Wire Rope:

#### **Main Hoist:**

New wire rope was installed on the Main Hoist with 8 falls. The installation of this new wire rope witnessed and visual examination was performed to the full length of the rope. The wire rope found in good condition and free from any visible defects. Lubrication of the wire rope and winding on the drum examined and found satisfactory.

Manufacturer Test Certificate "BRAUNTON SHAW UK, Certificate No. 258584/1/1 dated 13.05.2008) for the Wire Rope reviewed and detailed as below:

*28mm, 35x7, WSC, RHLL, 2160, GAL, MBL / ABL 78.24 Tonnes,*

#### **Auxiliary Hoist:**

Newly installed wire rope on the AUX Hoist @single fall was examined. The wire rope found in good condition and free from any visible defects. Lubrication of the wire rope and winding on the drum examined and found satisfactory.

Manufacturer Test Certificate "USHA MARTIN Limited, Certificate No. 1 150449/2 dated 13.12.2008) for the Wire Rope reviewed and detailed as below:

*19mm, Power-form 35, WSC, RHRL, 1960, GAL, MBL 351.1 kN*

### Winding Drums:

#### **Main Hoist**

The main hoist winch was examined and found in good working condition. The wire rope anchorage, Winch Drum, Winch Flanges, Winch mounting bolts and associated welds found to be in satisfactory condition.

#### **AUX Hoist**

The Aux hoist winch examined and found in good working condition. However, MPI of base welds is recommended. Furthermore, the some corrosion is observed on winch mounting bolts. This should be observed closely and preventive action should be made.

This certificate is granted subject to the condition that is understood and agreed that nothing herein contained shall be deemed to relieve any manufacturer, repairer or operator of any warranty, express or implied and ABS Group Inc. liability shall be limited to the acts or omissions of its employees or subcontractors. Under no circumstances whatsoever shall ABS Group Inc. be liable for injury or damage to any person or property occurring by normal operation or any defect in materials, machinery, equipment or other items other than such defects ascertainable by normally accepted testing standards upon those items actually inspected by ABS Group Inc. and which are covered by this certificate.

ولو، جناح ١٤٠٢، شارع السلام، ص.ب.: ٤٨٣٤١، أبوظبي - ا.ع.م.، هاتف: ٦٧٧١٨٩٧-٢-٩٧١+، فاكس: ٦٧٧١٨٩٨-٢-١  
Centre Building, Suite 1402, Al Salam Street, P.O. Box 48341, Abu Dhabi - U.A.E., Tel: +971-2-6771897, Fax: +971-2-6771898

Report No. 1243/003/10.13/DL/vs

PID: 30316873

Date: 06.10.2013

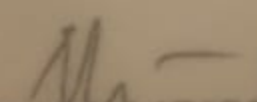
ABU DHABI, UAE

3. Inspection / Test Result :

3.1 The above crane was found to be in satisfactory condition after carrying out necessary test subject to proper maintenance recommended by Manufacturer.

REFERENCE STANDARD: CLIENT REQUIREMENT/LOLER  
NEXT INSPECTION: 05.04.2014      NEXT PLT: 05.10.2017

Report prepared and issued without prejudice.  
For and on behalf of ABS Group Inc.

  
DIOSDADO LAZARO  
Technical Representative



Report No. 1243/003/10.13/DL/vs/rev.1

PID: 3031683

Date: 06.10.2013

ABU DHABI U.A.E.

**STATEMENT OF FACT**

This is to report that a representative of our organization, did at the request of M/S MCDERMOTT MIDDLE EAST INC., P.O. Box 16961, Jebel Ali, Dubai, U.A.E. attend onboard M/V "THEBAUD SEA" whilst safely berthed at MCD Jetty on 6<sup>th</sup> of October 2013 in order to witness FUNCTIONAL & STATIC LOAD TEST of AURORA DECK CRANE and the report is as under:

1. Crane Details:

1.1 DESCRIPTION : ELECTRO-HYDRAULIC TELESCOPIC BOOM TYPE DECK CRANE  
 ID NO. : 98091-073099 (PORTSIDE DECK CRANE)  
 MAKE : AURORA CRANE U.S.A.  
 MODEL/YEAR : 50TSC12000 / 1999  
 MAIN BLOCK SWL : 10 T ( 28mm dia. Wire Rope @ Single Fall )  
 Boom Length: 30-50 FT. / Radius: 3.05-15.24 Mtr.  
 WIRE ROPE SPECS. : 28mm DIA. K735W,RHLL,MBL:779 KN,SWL:15.58T  
 FRANKLIN OFFSHORE CERT. NO.10900035-4  
 Dated 22.04.2009  
 CRANE'S LAST TEST : 30.04.2013 (ABSG REPORT NO. 449A/002/05.13/IS/vs)

2. Details of Inspection/Test Carried Out :

- 2.1 Witness functional & static load test of Main Hoist with test configuration below.
- 2.2 Water Bags (3nos., 5T each) were then lifted off the deck and crane was tested as per configuration below. Link type load cell used, STRAIGHTPOINT, UK, Serial No. 16331, SWL:12t, Model: RLP12t, Cal Cert. valid up to 20.08.2014.

TYPE OF TEST	RADIUS/BOOM LENGTH/BOOM ANGLE	TEST LOAD APPLIED	SWL (MT)
DYNAMIC TEST	4M/30FT/65°	5 MT	10 MT
FUNCTIONAL/BRAKE TEST	4M/30FT/65°	10 MT	
STATIC/BRAKE TEST	4M/30FT/65°	12.5 MT	

2.3 No signs of visible defects were noted on wire rope, terminations and hook block after the static test and MPI Test to follow on critical load bearing points as per MCD Procedure.



*[Handwritten signature]*



U.A.E  
 .com

**UNSQUALIFIED JOINT WELDING PROCEDURE  
 PROCEDURE SPECIFICATION**

Material specification	ASTM A 36 or Similar group 1 <i>metal</i>	
Welding process	FCAW (Dual Shield)	
Manual or machine	Semi-automatic	
Position of welding	1F Flat, 2F Horizontal, 3F Vertical	
Filler metal specification	AWS A 5.20	
Filler metal classification	E-70T-1	
Flux	N/A	
Shielding gas	CO <sub>2</sub>	Flow Rate 35-45CFH
Single or multiple pass	Single	
Single or multiple arc	Single	
Welding current	D.C. +	
Polarity	Reverse	
Welding progression	Forehand except vertical up.	
Root treatment	None	
Preheat and interpass temperature	70°F min.	
Postheat treatment	None	

\* Applicable only when filler metal has no AWS classification.

**WELDING PROCEDURE**

Pass no.	Electrode size	Welding Current			JOINT DETAIL
		Amperes	Volts	Travel	
1	1/16	200-250	28-30	6-10	

This procedure may vary due to fabrication sequence, fit-up, pass size, etc. within the limitation of variables given in 4B, C, or D, of AWS D 1.1, Structural welding code.

Procedure no. FCAW-TL-250-FHV-3  
 Revision no. \_\_\_\_\_

Authorized by \_\_\_\_\_  
 Date \_\_\_\_\_

Aurora



Middle East

فرع توف سود ميديل ايست ذ.م.م

شركة توف سود ميديل ايست ذ.م.م  
تفصيلات: 013 281 2121 - 013 281 9888 - فاكس: 013 281 2983

TÜV SÜD Middle East L.L.C.

Subsidiary of TÜV SÜD Industries Services GmbH, Munich, Germany  
Tel: 013-281 2121 / 013-281 9888 - Fax: 013-281 2983

No.: 4987

EQUIP NO.: PORT CR

EQUIP S.N.: 98091-073099

INSPECTION DATE 13 May 2019

EXPIRY DATE: 12 Aug. 2019

INSPECTED BY: 18-0002

S. A. Inspection Department Approved Contractor Agency

TTS



Middle East

فرع توف سود ميديل ايست ذ.م.م

شركة توف سود ميديل ايست ذ.م.م  
تفصيلات: 013 281 2121 - 013 281 9888 - فاكس: 013 281 2983

TÜV SÜD Middle East L.L.C.

Subsidiary of TÜV SÜD Industries Services GmbH, Munich, Germany  
Tel: 013-281 2121 / 013-281 9888 - Fax: 013-281 2983

No.: 4986

EQUIP NO.: STBD CR

EQUIP S.N.: 20940

INSPECTION DATE 13 May 2019

EXPIRY DATE: 12 Aug. 2019

INSPECTED BY: 18-0002

S. A. Inspection Department Approved Contractor Agency







Galaxy M13

98091-073099

















Galaxy M13

# SURVEY REPORT

DNV-GL

DNV GL Id No:  
21693

Name of Ship:

**THEBAUD SEA**

Owner:

**McDermott Gulf Operating Company Inc.**

*Next: 2 years from now*

This is to confirm that at the request of McDermott Middle East, the undersigned surveyor did attend the vessel THEBAUD SEA, IMO No. 9219410 for witnessing load test of the under-mentioned lifting appliances:

(1) Situation and description of lifting appliances (with distinguishing numbers or marks if any)	(2) Angle to the horizontal or radius at which test load was applied	(3) Test load (tonnes)
Main deck crane at frame 76, port side Make: Aurora Model: 50T SC 1200 Serial No.: 98091-073099	9.14m	10T (Dynamic)
Main deck crane at frame 76, port side Make: Aurora Model: 50T SC 1200 Serial No.: 98091-073099	9.14m	1.0T (Man Riding)

Issued at Jebel Ali, UAE on 2018-04-17



for DNV GL

*Plotrowski*

**Maciej Plotrowski**  
Surveyor



Form code: 40.9a

Revision: 2016-10

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# API SPEC 2G AP

10TH EDITION 1988

LICENSE NO. 2G-0033

DATE MNE

07/30/1999

MANUFACTURER'S MODEL NO.

50 SC12000

DESIGN SERVICE TEMPERATURE

30 up to 10

MANUFACTURER'S SERIAL NUMBER

98091-073099

MANUFACTURED BY  
ADDRESS

AURORA CRANE CORPORATION

3400 6TH AVE. S. • SEATTLE, WA 98134 U.S.A.

2G 4P

REGISTRATION 1988  
LICENSE NO. 2G-0033

DATE MFR. 07/30/1999

MANUFACTURER'S MODEL NO.

50TSC12900

DESCRIPTION

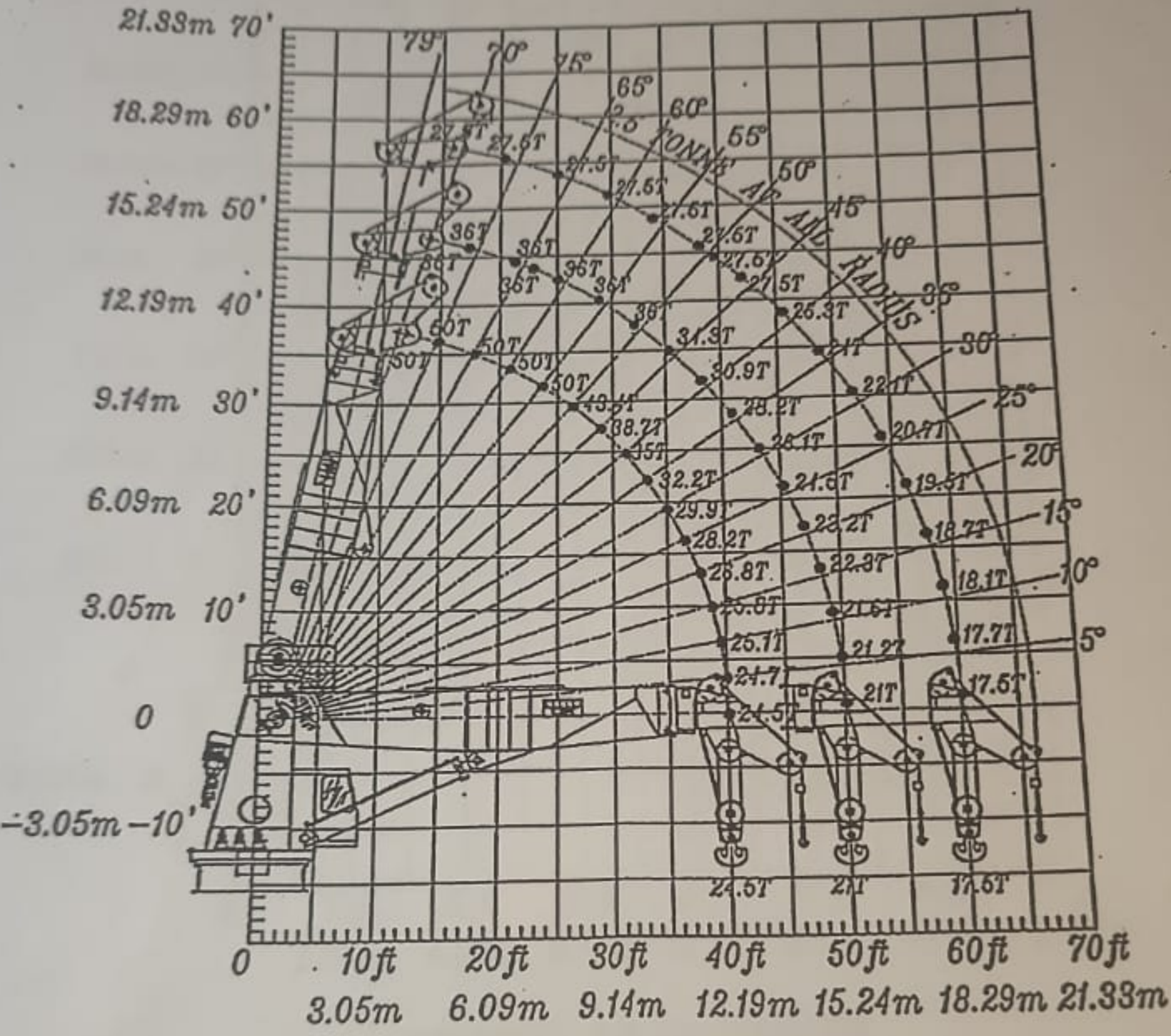
30 up to DEF

SERIAL NUMBER

9809107309

AUROSA CRANE CORPORATION

SEATTLE, WA 98134 U.S.

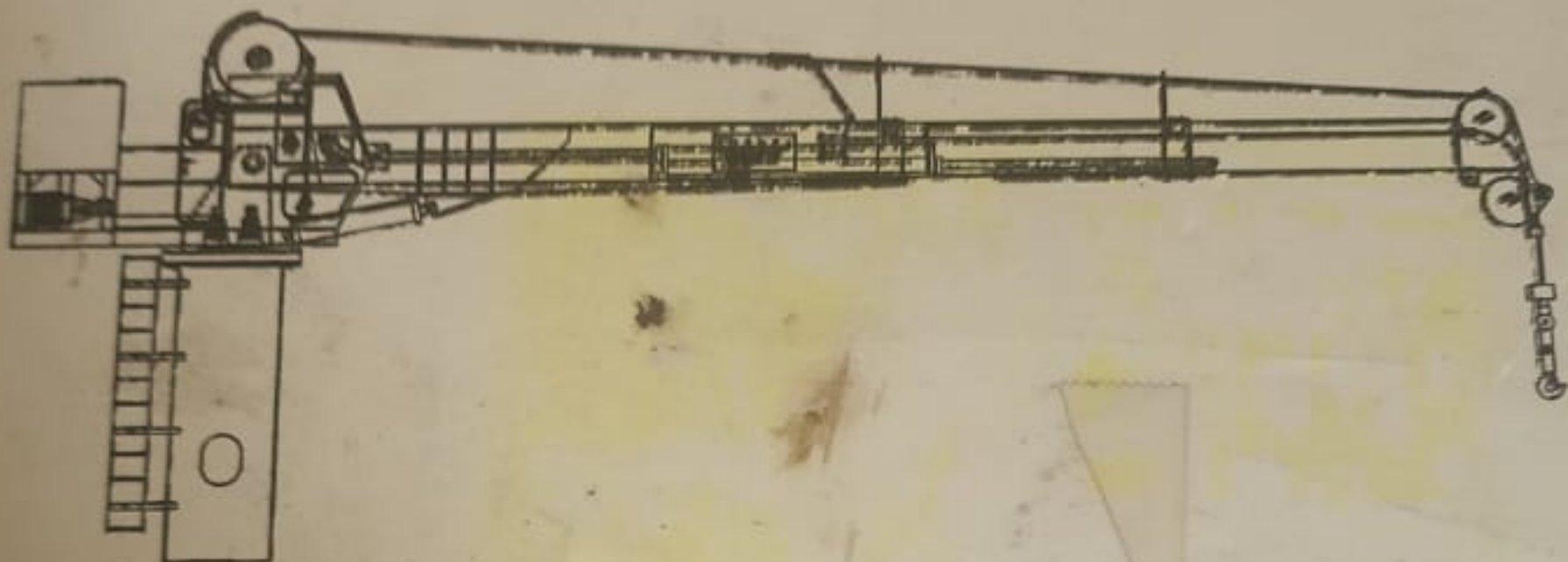


DYNAMIC LOAD CHART

**AURORA CRANE CORPORATION**

3400 6TH AVENUE SOUTH - SEATTLE, WA. 98134

TEL.: (206)622-9961 - FAX: (206)622-9967



**50 FT. DOUBLE TELESCOPIC CRANE  
MODEL: 50TSC12000  
OPERATOR & MAINTENANCE SERVICE MANUAL  
FOR  
HALTER/SECUNDA MARINE**



# SAFETY MARINE SERVICES

A MEMBER OF LIFTING EQUIPMENT ENGINEERS ASSOCIATION U.E.  
Tel. Off.: 009716-5748833, Fax: 5748838, P.O.Box: 40269, Sharjah -United Arab Emirates  
Tel. Factory: 06-5433900, Fax: 06-5434500, safetymjs@emirates.net.ae, www.safetymarine.com

Certificate No. : CCH-74419/1

ARAB HEAVY INDUSTRIES  
P.O.Box : 529  
Ajman, U.A.E

VESSEL : "THE BAUD SEA"

This form is based on the standard international form of certificate approved by the international Labour Organisation for the test and examination of cranes or hoists, and their accessory gear, used in the loading and unloading of ships.

**The Health And Safety Commission**  
Factories Act 1961  
Dock Regulations 1988  
Lifting Operations and Lifting Equipment Regulations (LOLER) 1988

## CERTIFICATE OF TEST AND THROUGH EXAMINATION OF CRANES OR HOISTS AND THEIR ACCESSORY GEAR, BEFORE BEING TAKEN INTO USE

Situation and description of crane or hoist, with distinguishing number or mark (if any) (Sufficient particulars must be given to identify the crane or hoist. If on a ship the name of the ship must be stated) (1)	Radius at which load applied Meters (2)	proof load applied tonnes (3)	Safe working load Tonnes (4)
<b>PEDESTAL MOUNTED HYDRAULICALLY OPERATED TELESCOPIC BOOM DECK CRANE</b>  Make : Aurora Crane Corp. USA Model : 60T SC220400 Serial No. : 98067-090899 Rope size : 28mm dia steel wire rope reeved in 10 falls Location : FR 71-STBD Side	6.4m (61°)  45°	105  -----	100  73.5

- (5) Name and address of public service, association, company, firm of person making the test and examination.....:
- (6) Name and position of person who carried out the test and examination.....:
- (7) Name and position of person who carried out the test and examination.....:

**SAFETY MARINE SERVICES**  
**SALIN HAMEED**  
**TEST SUPERINTENDENT**

I certify that on the 15th day of January, 2009 above machinery, together with its accessory gear, was tested by a competent person and that a careful examination of the said machinery and gear by a competent person after the test showed that it had withstood the test identified, without injury or permanent deformation: and that the safe working load of the said machinery and gear is as shown in column(4).

Signature.....



Date : 15.01.2009



SAFETY MARINE SERVICES: LIFTING EQUIPMENT MANUFACTURER, CRANE TESTING, SAFETY AUDITS, FIRST AID, FIRE & SAFETY DIVISION: STOCKISTS AND SUPPLIERS OF VALVES, STRAINERS, PIPES, FLANGES, PIPELINE FITTINGS, SHEETS, BANDING STRAPS, CLIPS, FASTNERS, ANODES AND ELECTRO MECHANICAL RIG SPACERS



CERTIFICATION APPROVED BY THE MINISTRY OF LABOUR AND SOCIAL AFFAIRS

