

## STEEL STEAMER or MOTORSHIP.

Received at London Office 26 SEP 1935

State if Report has been sent on the Freeboard of the Vessel *yes*  
 State if Report is sent on the Machinery of the Vessel *yes*

Date of completion of report *19<sup>th</sup> September 1935* Port of *Copenhagen* No. *9720*  
 Survey held at *Aalborg* Date First Survey *18<sup>th</sup> December 1934* Last Survey *11<sup>th</sup> September 1935*  
 On the (State if Machinery fitted Aft and) *Steel Single Screw Steamer "Ragna Gorthon"*  
 State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Complete Superstructure with tonnage opening aft* State Type of Erections *Forecastle*

TONNAGE under Tonnage Deck... *1551.82* CLASS *+ 100 A1* State if with freeboard as condition of Class *yes* Built at *Aalborg*  
 Do. of space or spaces between Tonnage Dk. and Upper Dk. *✓* Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *L 281'6"* Launched *12<sup>th</sup> July 1935* Yard No. *53*  
 Total *✓* Breadth (greatest moulded) *B 43'6"* Builders *A/S. Aalborg Maskin og Skibsbyggeri*  
 Gross Tonnage *1848.06* Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 19'8"* Owners *Mr. John Gorthon*  
 Register Tonnage *✓* 1st Longitudinal Number (L × D) *= 7648* Managers *✓*  
 2nd Numeral L × (B + D) *= 19893* (Where necessary to be entered in Reg. Book.)  
 Framing Depth "d," at middle of length. See Sec. 3 (1d) *16.67* Residence *Helsingborg*  
 Proportions—Depth to Length—Uppermost continuous deck to top of keel *10.17* Port of Registry *Helsingborg*  
 Draught Moulded *19'1"* If surveyed while building, afloat, ~~or~~ in dry dock *yes*

## REGISTERED DIMENSIONS.

FEET.  
 Length *282.88*  
 Breadth *43.64*  
 Depth *17.29*

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	24"	✓	Bracket Floors, Frame	6 1/2 3 1/2 .38	✓
" " from 1/2 length to Collision bulkhead	24"	✓	" " Reversed Frame	6 3 .38	✓
" " in peaks	24"	✓	" " Vertical Struts	6 3 .38	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	35 .46	✓
Frame Amidships, Angle, <i>E or F</i>	8 .3 .40	✓	" " top Angles	3 3 .40	✓
" " Extends up to <i>upper d. on aft. fr.</i>		✓	" " bottom Angles	3 1/2 3 1/2 .44	✓
Reversed Frame Amidships, Angle	✓	✓	Side Girders, No. each side and thickness	one - .33	✓
" " Extends up to...	✓	✓	Margin Plate depth (excl. of flange) and thickness	33 .44	✓
Depth of Framing Girder	8"	✓	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 .33	✓
Frames in Uppermost Continuous 'tween Decks, Angle, <i>E or F</i>	6 1/4 (cpt down from 8" AA)	✓	" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	3 1/2 3 1/2 .33	✓
" " Second 'tween Decks, Angle, <i>E or F</i>	✓	✓	" " Gussets, spacing and scantling abaft 1/2 len. from stem	✓	✓
" " Third " "	✓	✓	" " Gussets, spacing and scantling forward 1/2 len. from stem	✓	✓
Framing in Peaks, Angle, <i>E or F</i>	6 3 .30	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	60 .37	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 - 5 1/4	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	no.	✓	Breadth and thickness of Middle Line Strake	47 .42	✓
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<i>Double frame aft. 8 3 1/2 .48 E</i>	✓	Thickness of remainder in Holds	.35	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>Side stringers 2 off 30" x 34" 2 extra intercostals 3 bottom strakes 49" from 1/2 L. form. to Coll. bulkhead</i>	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	yes	✓
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, <i>E or F</i>	6 1/2 3 .34	✓
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, <i>E or F</i>	✓	✓
Middle Line Keelson, on Floors, Angles, <i>E or F</i>			Spacing	24"	✓
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle, <i>E or F</i>	8 3 .44 8 .3 .46	✓
" " Foundation Plate on Floors			Spacing	24	✓
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, <i>E or F</i>		
Side Keelsons, No. each side			Spacing		
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle, <i>E or F</i>		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, <i>E or F</i>		
Solid Floors, thickness and spacing	.33 ex. 2nd .44 in Boiler Rm.	✓	Spacing		
" " Are Frame and Reversed Frame joggled?	no	✓	Bridge Deck, Angle, <i>E or F</i>		
Bracket Floors, breadth and thickness at middle line	30 .33	✓	Spacing		
" " breadth and thickness at margin plate	60 .33	✓	Forecastle Deck, Angle, <i>E or F</i>		
			Spacing		

# PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows.....</b>	<i>one row</i>	✓	Stringer Plate, breadth and thickness in way of Bridge .....	✓	✓
"    in 'tween Decks, Size and Spacing <i>I. 180. 180. 90. 14</i>	<i>at hatch ends</i>	✓	Thickness of Plating abreast Deck openings in way of Wells .....	<i>.34</i>	✓
"    "    "    "    "    "		✓	Thickness of Plating abreast Deck openings in way of Bridge .....	✓	✓
"    in Holds    "    "	✓	✓	Thickness of Plating within line of openings...	<i>.30</i>	✓
"    "    "    "    "    "	✓	✓	If Sheathed, material and thickness .....	✓	✓
<b>Centre Line Bulkhead.</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....	<i>8 3 .38</i>	✓	Stringer Plate, breadth and thickness.....		
Plating, thickness of .....	<i>.30</i>	✓	If Plated, state thickness.....		
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells	<i>48 x .38</i>	✓	If Plated, state thickness .....		
"    "    "    "    in way of Bridge	✓	✓	<b>Poop Deck.</b>		
"    Angle in Wells .....	<i>3 1/2 3 1/2 .38</i>	✓	Stringer Plate, breadth and thickness .....		
Thickness of Plating abreast Deck openings in way of Wells .....	<i>.34</i>	✓	Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings in way of Bridge .....	✓	✓	<b>Bridge Deck.</b>		
Thickness of Plating within line of openings...	<i>.30</i>	✓	Stringer Plate, breadth and thickness.....		
If Sheathed, material and thickness .....	✓	✓	Plating, Sheathing, material and thickness ...		
<b>Second Deck.</b>			<b>Forecastle Deck.</b>		
Stringer Plate, breadth and thickness in Wells...	<i>44 x .34</i>	✓	Stringer Plate, breadth and thickness.....	<i>31 x .34</i>	✓
			Plating, Sheathing, material and thickness ...	<i>.30</i>	✓

## SHELL PLATING.

SCANTLINGS.						RIVETING.					
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing or to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.	Inches.	Inches.	
FLAT PLATE KEEL .....	<i>46</i>	<i>.57</i>	<i>.54</i>	<i>.53</i>	✓	<i>Double</i>	<i>7/8 3 1/2</i>	<i>3</i>	<i>1</i>	<i>2 3/4</i>	<i>Strapped</i>
"    DELG. (if any)	✓				✓	✓					
BOTTOM PLATING, No. of Strakes .....	<i>59</i>	<i>.44</i>	<i>.49</i>	<i>.42</i>	✓	<i>Double</i>	<i>3/4 3</i>	<i>3</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Lapped</i>
BILGE PLATING, No. of Strakes .....	<i>59</i>	<i>.44</i>	<i>.44</i>	<i>.44</i>	✓	"	"	<i>3</i>	"	"	"
SIDE PLATING, No. of Strakes .....	<i>55</i>	<i>.44</i>	<i>.66</i>	<i>.41</i>	✓	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells .....	<i>51</i>	<i>.50</i>	<i>.41</i>	<i>.41</i>	✓	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Bridge ...	✓				✓	✓					
STRAKE BELOW Sheer-strake in Wells .....	<i>51</i>	<i>.50</i>	<i>.41</i>	<i>.41</i>	✓	<i>Double</i>	<i>3/4 3</i>	<i>3</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Lapped</i>
STRAKE BELOW Sheer-strake in Bridge ...	✓				✓	✓					
POOP SIDE PLATING .....	✓				✓	✓					
BRIDGE SIDE PLATING ...	✓				✓	✓					
FORECASTLE SIDE PLATING	✓				✓	✓					

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel—</b>			
Extending to Upper Deck (Sec. 3 c) .....	<i>2</i>		
"    Deck next below .....	<i>2</i>		
As per Rule .....	<i>4</i>		
	Plating Thickness.	STIFFENERS.	
		VERTICAL.	HORIZONTAL.
		Scantlings, Spacing.	Scantlings, Spacing.
<b>MIDSHIP BULKHEAD, Upper tween decks</b>			
"    "    Second .....			
"    "    Third .....	<i>.35-.26</i>		
"    "    Holds .....	<i>.44-.26</i>	<i>8 x 3</i>	<i>.38 5 30"</i>
<b>COLLISION</b> .....			
(in Hold) .....	<i>.42-.31</i>	<i>8 x 3</i>	<i>.38 5 24"</i>
<b>AFTER PEAK</b> .....	<i>.30-.30</i>	<i>8 x 3</i>	<i>.36 5 24"</i>
	<i>.30-.26</i>	<i>5 x 3</i>	<i>.44 5 30"</i>

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar .....</b>	✓			
<b>STEM .....</b>	<i>Forging 8 x 2 1/2</i>		<i>8 1/2 - 8 x 1 1/2</i>	
<b>STERN FRAME</b> { Propeller Post .....	<i>Casting 10 3/4 x 5 1/2</i>		<i>Vardø Skjalverik</i>	
{ Rudder .....	<i>forging 8"</i>		<i>Burmester &amp; Wain</i>	
<b>RUDDER—A x D .....</b>			<i>Simplex Balance Deutsche Waff Hamburg</i>	
<b>Speed of Vessel .....</b>	<i>10.5</i>			
<b>RUDDER mainpiece at head .....</b>	<i>forging 5 3/4</i>		<i>Durumets &amp; Wain</i>	
"    "    heel .....				
"    how constructed .....				
"    double or single plate .....	<i>Double</i>			
"    coupling, vertical or horizontal .....	<i>horizontal</i>			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

*British Steel Export Association, Skinningrove Iron Co. Ltd. Appleby - Frodingham Steel Co. Ltd., Boloville Ltd. Dorman, Long & Co. Ltd.*

Has the Steel been tested as required by the Rules?

*yes.*

*open hearth*

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EQUIPMENT No. 20274												LETTER S	ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
48505	1st Bower ...	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	Quick, stockless	not	} Gradley Head 13/35 L.C. Paul 13.6.35 12.5.33  Cardiff 3.8.35. L.L. Wright	
48506	2nd „ ...	35	2	8	1	“		32	16	3	14	36	“	“		stated.
47186	3rd „ ...	33	1	14		“		31	3	0	14	33	“	“		
	Collective weight.	118	4	15								110				
19301	Stream .....	10	0	0	2	3	0	✓				10 ex. Stock				

CHAIN CABLES.										HAWSERS AND WARPS.					
Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.			Length and Size per Table 53.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.	Breaking Test of Steel Wire.	Length and Size per Table 53.		
36276	240 1 1/2	59. 82.	Cwts.	qrs.	lbs.	397 3/4	stud	not	Cardiff 3/8. 35	TOWLINE...	Fathoms.	Ins.	Tons.	Fathoms.	Ins.
							pink	stated	L.L. Wright	HAWSERS & WARPS	90	4"	46.5	90	4"
											2x90	2 1/2"	18.22	90	2 1/2"
											2x90	2 1/4"	14.8.2	90	2 1/4"
Iron Stream Chain or Steel Wire	75 4 1/2	59.						Jacob Holm & Sponner							

Steering Gear, Steam *John Hastie* Steering Gear, Hand *Blocks & Tackle*

Boats *2 life boats 23'0" x 7'4" x 2'10"* Steering Chains, Size and Test *Electric Motor Steam* Windlass *Heltingborg Vark.*

18'0" x 5'10" x 2'5"

Ceiling in Holds, thickness and material *2 1/2" pine, 3" in hatchways* Cargo Battens, thickness, material and spacing *6' x 2" pine, 9' sp.*

Cargo Hatchways.—(Upper Deck) *2' 8" x .44 steel casing* Thickness of Hatches *2 3/4" pine*

Size of No. 1 Hatchway (Forward) *28'0" x 20'0"* No. 2 *32'0" x 20'0"* No. 3 *26'0" x 20'0"* No. 4 *26'0" x 20'0"* No. 5 *✓* No. 6 *✓*

Number of Shifting Beams and/or Fore and Afters *No. 1 hatch 6 off 15' x .34, No. 2 hatch 7 off 12' x .32, No. 3 hatch 5 off 12 1/2' x .32, No. 4 hatch 5 off 12 1/2' x .32*

Builder's Signature *AALBORG MASKIN- OG SKIBSBYGGERI*

#### GENERAL DECLARATION

This vessel has been built in accordance with the approved plans, the Secretary's letters and as required by the Society's rules for the class contemplated. The workmanship is good and to my satisfaction. All double bottom tanks, peak tanks, decks, watertight bulkheads, funnel and gutterways, have been tested as required by the rules and found tight and good. Windlass and steering arrangement tried and found satisfactory. The freeboard has been marked on vessels side, verified and cut in.

Approved plans:

- 1.) Midship section.
- 2.) Profile and decks.
- 3.) Shell expansion.

The amount of Entry Fee ..... *Kr. : 112* Fees applied for, *25/10/35*

Special Survey Fee.... *Frøb. 246.40* Received by me, *19/12/35*

Travelling Expenses, if any £ *3769.79* *596.95*

I am of opinion the Vessel should be Classed *+ 100 A1* with freeboard strengthened for navigation in ice. Rudder electrically welded. Cruiser Stern.

Signature *M. M. M. M. M.* *M. M. M.*

Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey *yes*

Certificate to be sent to *Surveyor office Copenhagen*

Date of issue *4/10/35. 15/10/35*

Committee's Minute

FRI. 4 OCT 1935

FRI. 25 OCT 1935

Character assigned

*+ 100 A1*

WED. 29 JAN 1936

*with Free board*

*Lloyd's A+C.B.*

*+ Linc 9 35.*

*strengthened for navigation*

*J.D. C.L.*

*in ice*

*Rudder electrically welded.*

*M. M. M.*

*write off*



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GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

- 4.) Aft peak bulkhead.
- 5.) Topplate of engine seating.
- 6.) Arrangement at fore end.
- 7.) Engine seating.
- 8.) Collision bulkhead.
- 9.) Scupper valve in tonnage well.

The following certificates are forwarded herewith:  
Copy of interium certificate.  
Helm frame  
Rudder main piece  
Rudder head.  
Quadrant and tiller.

The vessel has been constructed for navigation in ice, intermediate frames are fitted from stem to frames 110-111. Intermediate frames in fore peak  $3\frac{1}{2} + 3\frac{1}{2} + .42$  angles extend from floors to second deck. Intermediate frames from frames 110-111 to collision bulkhead  $56 + 3 + .32$  and extend from margin plate to second deck and bracketed to side stringers. Shellplating from about frame 104 to stem and from margin to 12' over L.W.L. increased in thickness to .66-.58.

Particulars of Drop Test of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	Anchor Head	25-0-14	12 feet	M.A.B.	4612	21.2.1930
2nd "	"	"	"	A.B.	6569	30.11.1931
3rd "	"	"	"	D.C.B.	3277	30.12.1930

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle ☒ 252.7 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ☒

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 steel deck and shell deck (57)

Official No. ? ; Signal Letters ? Is bottom of Vessel coated with cement yes if not give particulars of composition. floors, intercostals in N: 3 tank and in N: 4 tank SS. coated with Vacuum-Under side tanktop in N: 3 tank and SS. N: 4 tank coated with Texas Oil Company's "Creder Compound" Product N: 229

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	90	194	Fore peak tank,	17'6"	51
Double bottom, under Engines and Boilers,	38	123	After peak tank,	22'0"	85
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	108	261	Other tanks, if fitted,	✓	✓
Total capacity of double bottom		578	(If necessary, furnish further information by sketch.)		

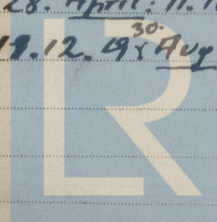
\* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 76

Date 7th January 1935

Dates of Surveys held while building

1934. Dec. 18. 27. 1935. Jan. 1. 11. 16. 27. 28. April. 11. 16. 24. 29. May. 3. 10. 14. 23. 31. June. 4. 6. 15. 21. 22. 28. July. 3. 19. 12. 29. Aug. 7. 13. 15. 16. 20. 23. 24. 28. 29. Sept. 2. 3. 5. 6. 9. 10. 11.



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Total No. of Visits 44.