

STEEL STEAMER or MOTORSHIP

Received at London Office

-4 OCT 1929

State if Report has been sent on the Freeboard of the Vessel no.State if Report is sent on the Machinery of the Vessel Yes.

Date of completion of report

September 30th 1929.

Port of

Aberdeen.

No.

15780.

Survey held at

Aberdeen

Date First Survey

June 27th 1929.

Last Survey

September 25th 1929.

On the

(State if Machinery fitted Aft and (if Single, Twin or Triple Screw)

STEEL SINGLE SCREW TUG.

"FOSSA"

State Type

(Full Scantling, Complete Superstructure with or without Tonnage Openings)

Gull Scantling

State Type of Erections

none.

TONNAGE under Tonnage Deck

104.02.

CLASS

100.A.1.

State if with freeboard as condition of Class

no.

Built at

Aberdeen.

Launched

30.8.29.

Yard No. 619.

Builders

A. Hall & Co. Ltd.

Owners

Garzke & Son.

Managers

(Where necessary to be entered in Reg. Book.)

Residence

20 St. Dunstons Hill. E.C.3.

Port of Registry

London.

If surveyed while building, afloat, or in dry dock

First Entry.

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Total

104.02.

Gross Tonnage

104.70.

Register Tonnage

1.45.

REGISTERED DIMENSIONS.

FEET.

Length

80.0.

Breadth

21.6.

Depth

10.0.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

L 80.0.

Breadth (greatest moulded)

B 21.5.

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 10.75.

1st Longitudinal Number (L x D)

= 860.

2nd Numeral L x (B + D)

= 2580.

Framing Depth "d," at middle of length. See Sec. 3 (1d)

9.77

Proportions—Depth to Length—Uppermost continuous deck to top of keel

7.44

Do. Long Bridge to top of keel

Breadth Moulded

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	20"	✓	Bracket Floors, Frame		
" " from $\frac{1}{2}$ length to Collision bulkhead	20"	✓	" " Reversed Frame		
" " in peaks FORWARD	18"	✓	" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships		
IN BOILER + BUNKER SPACE			" " top Angles		
Frame Amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	4" 3" 30"	✓	" " bottom Angles		
" REMAINDER (EXCEPT PEAKS)	4" 3" 30"	✓	Side Girders, No. each side and thickness		
Extends up to	Uppermost Deck.	✓	Margin Plate depth (excl. of flange) and thickness		
ON TOP OF FLOORS			" " Vertical Angle to Tank side		
Reversed Frame Amidships, Angle	2 1/2" 2 1/2" 28"	✓	Bracket abaft $\frac{1}{2}$ len. from stem		
IN BOILER ROOM	3 1/2" 3 1/2" 40"	✓	" " Vertical Angle to Tank side		
" IN ENGINE ROOM Extends up to	5" 4" 40"	✓	Bracket forward $\frac{1}{2}$ len. from stem		
Depth of Framing Girder	4"	✓	" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, $\frac{1}{2}$ or $\frac{3}{4}$			" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem		
" Second 'tween Decks, Angle, $\frac{1}{2}$ or $\frac{3}{4}$			Tank Side Brackets, height above base line at toe of Frame and thickness		
" Third			INNER BOTTOM PLATING.		
Framing in Peaks, Angle or $\frac{1}{2}$	4" 3" 30"	✓	Breadth and thickness of Middle Line Strake		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8" rivets. 7 diams.	✓	Thickness of remainder in Holds		
State if Frame Joggled	Yes.	✓	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?		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	as per approved Plans.	✓	BEAMS.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	as per approved Plans.	✓	Uppermost Continuous Deck, amidships	4" 3" 30"	✓
SINGLE BOTTOM.			" " in Wells, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	as approved	✓
Floors, Depth and thickness at mid line in Holds	1 1/2" x 28" 33" x 35" 38" B.S.	✓	" " in way of Bridge, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	✓	✓
Height of Brackets at side above base line at toe of frame	none.	✓	Spacing	20" + 18" in fore Peak.	✓
Middle Line Keelson, on Floors, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	6" x 3" x 40" Double for B.S.	✓	Second Deck, amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$		
" " Through Plate or Intercoastal Plate	APPROVED 38"	✓	Spacing		
" " Foundation Plate on Floors		✓	ACCOMMODATION FLAT FORWARD.		
" " Flat Plate Keel Angles		✓	Third Deck, amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	3" 3" 30"	✓
Side Keelsons, No. each side	one.	✓	Spacing	40"	✓
" thickness of Intercoastal Plate		✓	Fourth Deck, amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$		
" BULB Angles 6" x 3" x 40" B.S. Double in Boiler Space.		✓	Spacing		
APPROVED 5" x 3" x 38" O.A. Single forward Boiler Space		✓	Peep Deck, Angle, $\frac{1}{2}$ or $\frac{3}{4}$		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing		✓	Bridge Deck, Angle, $\frac{1}{2}$ or $\frac{3}{4}$		
" Are Frame and Reversed Frame joggled?		✓	Spacing		
Bracket Floors, breadth and thickness at middle line		✓	Forecastle Deck, Angle, $\frac{1}{2}$ or $\frac{3}{4}$		
" breadth and thickness at margin plate		✓	Spacing		

PILLARS AND DECKS.

[illegible]

SHELL PLATING.

SCANTLINGS.								RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.			EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.				State if jogged? <i>no</i>	SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.						Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.											
Flat Plate Keel															
" <i>DBLG.</i> (if any)															
BOTTOM PLATING, No. of Strakes 2....	<i>A 42"</i>	<i>.35"</i>	<i>.35"</i>	<i>.35"</i>	<i>.30"</i>	<i>.26"</i>	<i>.26"</i>	<i>Single</i>	<i>3/4"</i>	<i>3"</i>	<i>Double</i>	<i>3/4"</i>	<i>2 1/2"</i>	<i>Strapped Lapped</i>	
BILGE PLATING, No. of Strakes 1....	<i>C 52"</i>	<i>.35"</i>	<i>.30"</i>	<i>.30"</i>	<i>.27"</i>	<i>.24"</i>	<i>.24"</i>	"	"	"	"	"	"	"	
SIDE PLATING, No. of Strakes 1....	<i>D 52"</i>	<i>.35"</i>	<i>.40"</i>	<i>.35"</i>	<i>.28"</i>	<i>.24"</i>	<i>.24"</i>	<i>Double</i>	"	"	"	"	"	"	
UPPER DECK, Sheer-strake in Wells. 1....	<i>E 42"</i>	<i>.50"</i>	<i>.50"</i>	<i>.50"</i>	<i>.28"</i>	<i>.24"</i>	<i>.24"</i>							<i>Strapped.</i>	
UPPER DECK, Sheer-strake in Bridge ...															
STRAKE BELOW SHEER-strake in Wells....															
STRAKE BELOW SHEER-strake in Bridge ...															
POOR SIDE PLATING															
BRIDGE SIDE PLATING															
BULWARKS.															
FORECASTLE SIDE PLATING	<i>27"</i>	<i>.30"</i>	<i>.30"</i>	<i>.40"</i>							<i>Single.</i>	<i>5/8"</i>	<i>2 1/2"</i>	<i>Strapped</i>	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—					✓	
Extending to Upper Deck (Sec. 3 c) <i>four (as approved)</i>						
" Deck next below					✓	
As per Rule <i>4 approved.</i>					<i>four.</i>	
		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULK'D,	<i>N^{os} 5 & 6 AFT.</i>	✓ 3/16" 40	✓ 4" 3' x 30"	✓ 30"	✓ 3' x 3' x 36"	✓ Roof angle.
"	" <i>Second</i>	" <i>N^{os} 10 & 11</i>	✓ 3/16" 40 3/16" 32	✓ 3 1/2" 3' x 30"	"	✓ Lo. T. flat.
"	" <i>Third</i>	" <i>N^o 35.</i>	✓ 3/16" 38	✓ 4" 3' x 30" 4 1/2" 3' x 30"	✓ 3' x 3' x 30"	✓ Roof angle.
"	" <i>NON W.T. Hold</i>	" <i>N^o 21.</i>	✓ 3/16" 28	✓ 4 1/2" 3' x 30" 30" } 36" }	✓ 3' x 3' x 30"	✓
COLLISION	" <i>(in Hold)</i>	" <i>N^o 45.</i>	✓ 3/16" 32	✓ 4" 3' x 30"	✓ 3' x 3' x 30"	✓ Roof angle.
AFTER PEAK	" <i>NON W.T.</i>	" <i>N^o 23.</i>	✓ 3/16" 28	✓ " <i>approved</i> }	✓	✓
STEEL.		Manufacturer's Name or Trade Mark of the Steel used in the construction				
		<i>D. Colville & Sons Ltd. Cargo Steel Iron Co. Ltd. Wm. Beardmore & Co. Ltd.</i>				
		Has the Steel been tested as required by the Rules? <i>Yes.</i>				

~~FORGINGS and CASTINGS.~~

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	3. Plais	$7\frac{1}{2} \times 18$	Consolidated Co.	6×1
STEM	$7\frac{1}{2} \times 18$	"	$5\frac{1}{2} \times 1$
STERN FRAME {	Propeller Post	Forging	$5\frac{1}{2} \times 2\frac{1}{2}$	E. W. Thompson. $5\frac{1}{2} \times 2\frac{1}{2}$
	Rudder	"	"	$4\frac{7}{8} \times 2\frac{1}{8}$
RUDDER—A x D	not exceeding 47.			
Speed of Vessel	10 knots			
RUDDER mainpiece at head ...	Forging	4	Hall & Co.	
" " heel ...	"	$3\frac{5}{8}$	"	$3\frac{1}{2}$
" how constructed	Slick & Arms = mild rolled steel.			
" double or single plate	82			
" coupling, vertical or	none.			
" horizontal				

Siemens Martin.

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EQUIPMENT No. 2580										LETTER		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.	
		Owts.	qrs.	lbs.	Owts.	qrs.	lbs.	Tons.	owts.	qrs.	lbs.	Owts.				
44729.	1st Bower ...	#	2	0	Stockless				6	17	2	0	4 1/2 ✓	"Yellow's" C.S. Head.	Yellow's B.P. Ltd.	C.H. 18.9.29. R.B. Rysdale
44730	2nd " ...	#	2	0.	"				6	17	2	0	4 1/2 ✓	" " "	" " "	" " "
✓	3rd " ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Collective weight.	9	0	0									9.			
✓	Stream	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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.		Length and Size per Table 53.
	Fathoms.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Fathoms.	Diam.					Fathoms.	Ins.	
43281	30	1 1/2"	11 1/8	17 1/2	10.3.3	20 1/2	60	1 1/2"	Stud		C.H. 21.9.29. Rysdale				
43348	30	1 1/2"	11 1/8	17 1/2	11.0.5						" " "	HAWSERS & WARPS	60	5 1/2"	60. 5 1/2"
											" " "	"	60	3"	60. 3"
		Cir.										"			
Lean Chain (Chain or Steel Wire)												"			

Steering Gear, Steam	by Donkin & Co.	4 1/2" x 5" stroke.	Steering Gear, Hand & Steam combined.	
Boats	none.	Steering Chains, Size and Test	5" x 1 1/2" S.C. 1.5. C.H. 29.29. Windlass	
Ceiling in Holds, thickness and material	none.	Cargo Battens, thickness, material and spacing	none.	
Cargo Hatchways (Upper Deck)		Thickness of Hatches		
Size of No. 1 Hatchway (Forward)	No. 2	No. 3	No. 4	No. 5
Number of Shifting Beams and/or Fore and Afters				
<div>Builder's Signature</div> <div>ALEXANDER HALL & CO. LTD.</div> <div><i>[Signature]</i></div>				

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel		no.	(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo	no.	The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.
This vessel has been built in accordance with the Secretary's letters, the Rules and approved plans, for the intended class 100.A.1. (For Towing Services).					
The materials and workmanship are good.					
The Peaks, Weather Deck and Bulkheads, have been satisfactorily tested.					
The following approved plans are forwarded herewith, viz:- Profile and Deck. Midship Section. Engine and Boiler Drawings. Stern Frame. Rudder Frame. Bulkheads. Keelsons and Pumping Arrangement together with 2 Reports on forgings, also Revised Profile.					
The steel, single screw tug "Tayra" abn. Report 14476 is a sister vessel.					

The amount of Entry Fee	£ 2 : 0 : 0	Fees applied for,	Oct 3. 1929	I am of opinion the Vessel should be Classed 100.A.1. FOR TOWING SERVICES.
Special Survey Fee	£ 20 : 0 : 0	Received by me,	11.11.29	
Travelling Expenses, if any	£ : :			
State whether the Vessel has been built under Special Survey	Yes.	Signature	J. Richardson.	Surveyor to Lloyd's Register of Shipping.
Certificate to be sent to	Aberdeen	Date of issue	12/11/29	

Committee's Minute	FRI. 11 OCT 1929
Character assigned	+ 100 A1 For Towing Services
<div>Lloyd's A & CP</div> <div>+ L.M.C. 9.29</div> <div>R.B.</div>	

The Surveyor is requested not to write on or below the Committee's Minute.



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W1214 -0236 2/2

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.)

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

1st Bower ✓
2nd „ ✓
3rd „ ✓

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle ✓ 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) One Deck Steel

Official No. 161295; Signal Letters

Is bottom of Vessel coated with cement Yes. if not give

particulars of composition. Bituminous Solution + Enamel above cement in Shaft Tunnel, Engine Room below level of Platform. all inside of Cross and Side Bunkers and Boiler Room below level of Stokerhold platform.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.		Where Fitted.	*Length.	
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	✓	✓	Fore peak tank,	✓	✓
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	✓	✓
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	✓	✓	Other tanks, if fitted,	✓	✓
Total capacity of double bottom		✓	(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. 1755.

Date 4. 4. 29.

Dates of Surveys held while building

1929. June 27. July 3. 8. 12. 19. 23. 31. August 13. 14. 26. 29. 30.
Sept. 3. 5. 6. 10. 17. 25.

Total No. of Visits 18