

STEEL STEAMER or MOTORSHIP.

-4 JUL 1934

Received at London Office.

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

28th June 1934

Port of

Glasgow

No. 54690

Survey held at

Bowling

Date First Survey

8th Jan'y 1934

Last Survey

21st June

1934.

On the (State if Machinery fitted Aft and

(Single, Twin or Triple Screw)

Single Screw Steamer "BROOM" machinery aft.

State Type (Full Scantling, Complete Superstructure

with or without Tonnage Openings)

Full Scantling

State Type of Erections Br. Feb. & R.Q. 34.

TONNAGE under

253.41

CLASS

+100 A.1.

State if with freeboard

No

Built at

Bowling

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 142.29

Launched 28th May 1934 Yard No. 325

Total

Breadth (greatest moulded)

B 23.5

Builders Messrs Scott & Sons.

Gross Tonnage

346.60

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

D 11.42

Owners Frontier Line S.S. Co. Ltd.

Register Tonnage

120.91

1st Longitudinal Number (L x D)

= 1625

Managers J. Fisher & Sons Ltd.

(Where necessary to be entered in R. 29, Book.)

2nd Numeral L x (B + D)

= 4970

Residence Newry.

REGISTERED DIMENSIONS.

FEET.

Length

142.7

Framing Depth "d," at middle of length. See

Sec. 3 (1d)

10.89

Port of Registry Newry

Breadth

23.60

Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel

12.45

If surveyed while building, afloat, or in dry dock

Depth

10.50

Draught Moulded

11'-2 1/2"

Building & afloat.

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	2 1/2		Bracket Floors, Frame		
" " from 1/2 length to Collision bulkhead	2 1/2		" " Reversed Frame		
" " in peaks	2 1/2	app. 23" A.P.	" " Vertical Struts		
IDE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, E or F	5 3 .38	app. 5 x 3 = 30 A.P. 5 1/2 x 3 = 36 A.P.	" " top Angles		
" " Extends up to	4 1/2	R.Q. 50	" " bottom Angles		
Reversed Frame Amidships, Angle, E or F	2 1/2 2 1/2 38	app. 28	Side Girders, No. each side and thickness		
" " Extends up to	Belge		Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder	5		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, E or F			" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem		
" " Second 'tween Decks, Angle, E or F			" " 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, E or F	5 3 .38	app. 4 x 2 1/2 = 31 A.P.	Tank Side Brackets, height above base line at toe of Frame and thickness		
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	3/4 x 54		INNER BOTTOM PLATING.		
State if Frame Joggled	no		Breadth and thickness of Middle Line Strake		
PANTING ARRANGEMENTS (Sec. 7). state system and particulars	See plan		Thickness of remainder in Holds		
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars	increased shell & extra keelsons		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?		
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	15 1/2 x .50	app. 28	Uppermost Continuous Deck, amidships in Wells, Angle, E or F	4 1/2 3 .31	
Height of Beams at side above base line at toe of frame	19 1/2		" " in way of Bridge, Angle, E or F		
Middle Line Keelson, on Floors, Angle, E or F	8 3 .50	app. 6 x 3 = 42	Spacing	2 1/2	
" " Through Plate or Intercostal Plate			R.Q.		
" " Foundation Plate on Floors			Second Deck, amidships, Angle, E or F	5 3 .36	
" " Flat Plate Keel Angles			Spacing	2 1/2	
Side Keelsons, No. each side	2	1 app.	Third Deck, amidships, Angle, E or F		
" " thickness of Intercostal Plate on inner keelson	.38	app. 28	Spacing		
" " 8 Angles	6 3 .50	app. 6 x 3 = 47 A.P. single 4 x 3 = 30 A.P. double	Fourth Deck, amidships, Angle, E or F		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing			Bridge Deck, Angle, E or F	4 1/2 3 .31	
" " Are Frame and Reversed Frame joggled?			Spacing	2 1/2	
Bracket Floors, breadth and thickness at middle line			Forecastle Deck, Angle, E or F	5 3 .26	
" " breadth and thickness at margin plate			Spacing	4 3	

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.
PILLARS, No. of Rows.....	<i>one</i>			<i>angle</i> Stringer Plate, breadth and thickness in way of Bridge	<i>8</i>	<i>8</i>	<i>.30</i>
" in 'tween Decks, Size and Spacing.....	<i>✓</i>			Thickness of Plating abreast Deck openings in way of Wells			
" " " " "	<i>✓</i>			Thickness of Plating abreast Deck openings in way of Bridge			
" in Holds " "	<i>4"</i>	<i>7-2 apart</i>	<i>apps 3"</i>	Thickness of Plating within line of openings...	<i>.30</i>	<i>✓</i>	
" " " " "	<i>✓</i>			If Sheathed, material and thickness	<i>✓</i>		
Centre Line Bulkhead.				Third Deck.			
Stiffeners and Spacing.....	<i>✓</i>			Stringer Plate, breadth and thickness.....			
Plating, thickness of	<i>✓</i>			If Plated, state thickness.....			
STRINGERS AND DECKS.				Fourth Deck.			
Uppermost Continuous Deck.				Stringer Plate, breadth and thickness.....			
Stringer Plate, breadth and thickness in Wells	<i>68</i>	<i>x .35</i>		If Plated, state thickness			
" " " " in way of Bridge	<i>✓</i>			Poop Deck.			
" Angle in Wells	<i>3½</i>	<i>3½</i>	<i>.35</i>	Stringer Plate, breadth and thickness			
Thickness of Plating abreast Deck openings in way of Wells				Plating, Sheathing, material and thickness ...			
Thickness of Plating abreast Deck openings in way of Bridge				Bridge Deck.			
Thickness of Plating within line of openings...	<i>.30</i>	<i>.29</i>	<i>✓</i>	Stringer Plate, breadth and thickness.....	<i>.24</i>	<i>✓</i>	
If Sheathed, material and thickness	<i>✓</i>			Plating, Sheathing, material and thickness ...	<i>.24</i>	<i>P.P. 2½"</i>	
R.Q. Second Deck.				Forecastle Deck.			
Stringer Plate, breadth and thickness in Wells...	<i>66</i>	<i>x .30</i>	<i>✓</i>	Stringer Plate, breadth and thickness.....	<i>.30</i>	<i>✓</i>	<i>apps. 24</i>
				Plating, Sheathing, material and thickness ...	<i>.30</i>	<i>✓</i>	<i>apps. 24</i>

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?		RIVETS.		NO. OF ROWS OF RIVETS.	BUTTS.		STRAPPED OR LAPPED.
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.	Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Breadth.	Thickness.	Thickness.	Thickness.									
FLAT PLATE KEEL													
Barboard " Deck (if any)		Bar Keel											
		.43	.43	.43	apps. 35 - 31 + .36	double	3/4	3.07	double	3/4	2 5/8	shape	
BOTTOM PLATING, No. of Strakes one }		.43	.38	.38	" .33 - .29 + .36	"	"	"	"	"	"	"	
BILGE PLATING, No. of Strakes one }		.55	.29	.31	" .33 - .29	"	"	"	"	"	"	"	
SIDE PLATING, No. of Strakes													
UPPER DECK, Sheer- strake in Wells.....	57 1/2	.40	.29	.29		"	"	"	treble	3/4	2 5/8	overlap	
R.Q. UPPER DECK, Sheer- strake in Bridge ... }	40	.35		.29		"	"	"	double	3/4	2 5/8	"	
STRAKE BELOW Sheer- strake in Wells.....	54	.37	.29	.30		"	"	"	"	"	"	"	
Upper Deck STRAKE BELOW Sheer- strake in Bridge ... }	57 1/2	.34	.29	.30		"	"	"	"	"	"	"	
R.Q.D. POOP SIDE PLATING													
BRIDGE SIDE PLATING ...		.25			apps. 24.	Single	5/8	2 1/2	-				
FORECASTLE SIDE PLATING			.24			Single	5/8	2 1/2	double	5/8	2 1/4	overlap.	

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—						Casting or Forging.		Scantlings.		Maker's Name.		Any departure from approved plans to be noted.	
Extending to Upper Deck (Sec. 3 c)						3							
" Deck next below						none							
As per Rule						3.							
						STIFFENERS.							
						VERTICAL.		HORIZONTAL.					
						Plating Thickness.		Scantlings.		Spacing.			
MIDSHIP BULKH'D, Upper tween decks													
" " Second "													
" " Third "													
" " Holds .....						.26-.40		7 x 3 1/2 x .33		.30		Iron on alt. Shffers	
COLLISION " (in Hold) .....						.26-.40		4 1/2 x 3 x .380A		.24		F.P. Tank Top	
AFTER PEAK " " .....						.30-.38		5 x 3 x .360A		.24		Recus top	

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open hearth process*
Nelson Steel Co of Scotland Ltd; Lanarkshire Steel Co Ltd; Cusset Iron Co Ltd; Scottish Iron & Steel Co Ltd.

Has the Steel been tested as required by the Rules? *Yes.*

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.)

This vessel is a sister vessel to the S.S. Thorn (same builders U. 326) Glasgow Rep. No. 54691.

Plans now forwarded:-

- ✓ Midship Section, Profile & Decks (1/plan)
- ✓ Skin Plating
- ✓ Alterations to Sheer & Scantlings.
- ✓ Pumping Plan

Also Midship Section as built (already forwarded) and Fitting Reports.

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

1st Bower 5.1.24; J.D.; 3214; 6.4.34.
2nd " 5.1.17; J.D.; 3218; 6.4.34.
3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. 81.12 ft., Bridge 7.16 ft., Forecastle 20.43 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 dk. (sk), well dk.

Official No. 160293 : Signal Letters

Is bottom of Vessel coated with cement Yes if not give

particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	29-9	54
Double bottom, under Engines and Boilers,			After peak tank,	13-0	39
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,		
			(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. 6179

Date 27. 12. 33

Dates of Surveys held while building

1934 Jan: 8.11.15.24.26.29.30 Feb: 1.7.18.16.20.21.23.26 Mar: 1.2.5.7.12
14.20.27.30 Apr: 3.4.6.10.13.16.19.26.27 May: 1.4.9.14.16.18.21.24.28
June: 5.11.15.19.21

Total No. of Visits 47