

## STEEL STEAMER or MOTORSHIP.

Received at London Office 11 JUN 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 No (From Sld).

Date of completion of report

8<sup>th</sup> June 1935.

Port of

Newcastle

No.

92619

Survey held at

Newcastle

Date First Survey

23/1/35

Last Survey

4/6/35.

19

On the ~~(Single, Double, Triple, Screw)~~

Steel Screw Steamer "THORNABY"

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

Fuel Scantling

State Type of Erections

File &amp; combined roof &amp; bridge

TONNAGE under Tonnage Deck...

807.95

CLASS +100A1.

State if with freeboard as condition of Class

No

Built at

Hebburn

Launched

1<sup>st</sup> May 1935.

Yard No. 596

Builders

R.W. Hawthorn Leslie &amp; Co. Ltd.

Owners

Tyne Tees Shipping Co.

Managers

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

Residence

Newcastle

Port of Registry

Middlesbrough

If surveyed while building, afloat, or in dry dock

During Construction

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

Total

Gross Tonnage

1173.77

Register Tonnage

503.98

REGISTERED DIMENSIONS. FEET.

Length

226.6'

Breadth

33.15'

Depth

14.3'

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

L 225'-0"

Breadth (greatest moulded)

B 33'-0"

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

D 16'-6" U.D. 24'-0" B.D.

1st Longitudinal Number (L x D) = 3712.

2nd Numeral L x (B + D) = 11137.

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

13'-84" U.D. 21'-34" B.D.

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

13.63

Do. Long Bridge to top of keel

9.38

Draught Moulded

15'-2 1/2"

## 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	23	✓	Bracket Floors, Frame		
" " from 3/4 length to Collision bulkhead	23	✓	" " Reversed Frame		
" " in peaks	23	✓	" " Vertical Struts		
DE FRAMING.			Centre Girder, depth and thickness amidships	32 x 40-34	50.B.S. ✓
Frame Amidships, Angle, E or F	6. 3. 35	✓	" " top Angles	Single	3. 3. 38 : D where appl. ✓
" " Extends up to	up to 4th app. ✓		" " bottom Angles	3 1/2. 3 1/2. 40	do. ✓
Reversed Frame Amidships, Angle, E or F	8 x 3 x 42 E or F	48.B.S. ✓	Side Girders, No. each side and thickness	One 28. 40 E.S. app. 30 E.S. ✓	
" " in Bunkers Extends up to	6. 3. 41	✓	Margin Plate depth (excl. of flange) and thickness	24. 40. 46 B.S.	✓
Depth of Framing Girder	✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	5. 4. 7/16. 1	app. 2 1/2. 2 1/2. 30 ✓
Frames in Uppermost Continuous 'tween Decks, Angle, E or F			" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	6. 6. 1/2. 1	✓
" " Second 'tween Decks, Angle, E or F			" " Gussets, spacing and scantling abaft 1/4 len. from stem		
" " Third " " " "			" " Gussets, spacing and scantling forward 1/4 len. from stem		
Framing in Peaks, Angle, E or F	6 x 3 x 36	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	41" x 32	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4" @ 5 1/4" as per rule elsewhere		INNER BOTTOM PLATING.		
State if Frame Joggled	Yes.		Breadth and thickness of Middle Line Strake	66" x 39 - 36	3/8 under F. ✓
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	8. 3. 375 frames ✓		Thickness of remainder in Holds	36 - 35	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Increased Shell extra frames 5 x 5 frame bottoms. ✓		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	✓
ANGLE BOTTOM. in Boiler Room only			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	20 x 44	✓	Uppermost Continuous Deck, amidships in Wells, Angle, E or F	6. 3. 36 NBS	✓
Height of Brackets at side above base line at toe of frame	41	✓	" " in way of Bridge, Angle, E or F	do.	✓
Middle Line Keelson, on Floors, Angles, E or F			Spacing	every frame	✓
" " " CG Through Plate or Intercoastal Plate	32" x 50	✓	Second Deck, amidships, Angle, E or F		
" " " Rider Foundation Plate on Floors	12" x 50	✓	Spacing		
" " " CK Flat Plate Keel Angles	3. 3. 50 D	✓	Third Deck, amidships, Angle, E or F		
Side Keelsons, No. each side	one	✓	Spacing		
" " thickness of Intercoastal Plate	44	✓	Fourth Deck, amidships, Angle, E or F		
" " Angle Rider	8. 3. 54	✓	Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, E or F	7. 3. 35 NBS 6	✓
Solid Floors, thickness and spacing	30 every frame 34 aft bulk. 40 ER 44 B.R. ✓		Spacing	every frame	✓
" " Are Frame and Reversed Frame joggled?	Yes		Bridge Deck, Angle, E or F	6. 3. 35 NBS	✓
Bracket Floors, breadth and thickness at middle line			Spacing	every frame	✓
" " breadth and thickness at margin plate			Forecastle Deck, Angle, E or F	6. 3. 34	✓
			Spacing	every frame	✓



# 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>			Stringer Plate, breadth and thickness in way of Bridge .....		
„ in 'tween Decks, Size and Spacing.....	2 1/2 dia @ 4'	✓	Thickness of Plating abreast Deck openings in way of Wells .....		
„ „ „ „ „			Thickness of Plating abreast Deck openings in way of Bridge .....		
„ in Holds „ „			Thickness of Plating within line of openings...		
„ „ „ „ „			If Sheathed, material and thickness .....		
<b>Centre Line Bulkhead.</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....		
Plating, thickness of .....	✓		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	77x49-34	✓	If Plated, state thickness .....		
„ „ „ „ in way of Bridge	72	✓	<b>Poop Deck.</b>		
„ Angle in Wells .....	5.5.54 5 3/2 3/2 44.	✓	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 .....	✓		<b>Bridge Deck.</b>		
Thickness of Plating within line of openings...	30	✓	Stringer Plate, breadth and thickness.....	77x26-34	✓
If Sheathed, material and thickness .....	not sheathed in well	✓	Plating, Sheathing, material and thickness ...	30 : 2 1/2 W.W	in accord
<b>Second Deck.</b>			<b>Forecastle Deck.</b>		
Stringer Plate, breadth and thickness in Wells...	✓		Stringer Plate, breadth and thickness.....	30	✓
			Plating, Sheathing, material and thickness ...	40-30	unsheathed

## SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		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.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL .....	42	.50	.46	.46	✓	2R.	3/4	2 7/8	3R ✓	3/4	2 7/8	lapped	
„ DBLG. (if any)			.45	.41									
BOTTOM PLATING, No. } of Strakes ..... 2..... }		.41	.37	.37.	✓	2R	3/4	2 7/8	3R-2R. ✓	3/4	2 7/8	✓ -	
BILGE PLATING, No. of } Strakes ..... 1..... }		.41	.37	.41	✓	2R.	3/4	2 7/8	do ✓	do	do	✓ -	
SIDE PLATING, No. of } Strakes ..... 1..... }		.41	.40	.37	✓	2R	3/4	2 7/8	2R ✓	do	do	✓ -	
UPPER DECK, Sheer- } strake in Wells..... }	45	.55	.37	.37	✓	2R.	3/4	2 7/8	4R 6 2R ✓	3/4	2 7/8	✓ -	
UPPER DECK, Sheer- } strake in Bridge end at		.82			✓	2R	7/8	3 3/4	4R ✓	1"	4"	✓ -	
STRAKE BELOW Sheer- } strake in Wells..... }		.47	.37	.37.	✓	2R	3/4	2 7/8	3R-2R ✓	3/4	2 5/8	✓ -	
STRAKE BELOW Sheer- } strake in Bridge ... }		.44	-	.37	✓	1R	3/4	2 7/8	3R-2R ✓	3/4	2 5/8	✓ -	
POOP SIDE PLATING .....		.44	-	.37	✓	1R	3/4	2 7/8	3R-2R ✓	3/4	2 7/8	✓ -	
BRIDGE SIDE PLATING ...			-										
FORECASTLE SIDE PLATING			.30			1R.	3/4	2 7/8	1R. ✓	3/4	2 7/8	✓ -	

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel—</b>	
Extending to Upper Deck (Sec. 3 c) <i>Four</i>	
„ Deck next below .....	✓
As per Rule .....	✓

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKH'D, Upper tween decks</b>					
„ „ Second „					
„ „ Third „	13	56	44-32	7.3.34	30"
„ „ Holds ..... 13.....	32.	38-30	6.3.36	22-27	Jurnal flat
<b>COLLISION</b> „ (in Hold) .....		38-34	6.3.34	24"	2.5.B. Beam
<b>AFTER PEAK</b> „ „ .....		62-30	6.3.32.	24"	Jurnal flat

## 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>				
<b>STERN FRAME</b> { Propeller Post .....				
{ Rudder „ .....				
<b>RUDDER—A x D.....</b>	160			
<b>Speed of Vessel.....</b>		10 k		
<b>RUDDER</b> mainpiece at head ...				
„ „ heel ...				
„ how constructed .....				
„ double or single plate				
„ coupling, vertical or horizontal.....				

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <i>open hearth</i>
	<i>Dorman Long, Appalby Frodingham, Consett, South Durham, Skinningrove, Corby, Llannechue, Colvilles. Steel &amp; Iron Co's.</i>
	Has the Steel been tested as required by the Rules? <i>Yes</i>



EQUIPMENT No 12072				LETTER n				ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	
35226	1st Bower	25	3	14				25	10	1	5: 24/4/35 JAB.
35227	2nd "	25	3	-				25	8	0	5 do do
35221	3rd "	21	1	-				22	11	1	5: 23/4/35 do
	Collective weight.	72	3	14							
48347	Stream	6	2	8	✓	1	2	8	17	2	CH: 10/4/35 Paul

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.		
	Length.	Diam.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.		
	Fathoms.	Ins.	Tons.	✓ Tons.	Cwts.	qrs.	lbs.	✓ Cwts.	Fathoms.	Ins.				Fathoms.	Ins.	Tons.	✓ Fathoms.	Ins.	
51054	210	1½	✓ 40½	✓ 58¾	243-1-7.			✓ 242 —	210	1½	Steel	—	CH: 10/4/35: Paul	TOWLINE...	90	3¼	21.7	✓ 90	3¼
														HAWSEERS & WARPS	90	2¼	10.8	✓ 90	2¼
														"	90	5	manilla	✓ 90	5
		Cir.								Cir.				"					
Iron Stream Chain or Steel Wire	75	3½	✓		25.7	✓			75	3½	Wire	British Ropes	✓	"					

Steering Gear, Steam *Steam. 7" dia x 6 1/2" stroke: Denton & Co* Steering Gear, Hand *4" Screw Gear: Denton*

Boats *2 @ 20' x 6 1/2' x 2.65' 10 1/4 x 5 1/2* Steering Chains, Size and Test *1 1/2" chain tested to 10 1/2 tons* Windlass *Emmerton Walker 8 1/2 x 9"*

Ceiling in Holds, thickness and material *2" W. Wood.* Cargo Battens, thickness, material and spacing *6 x 2" @ 15"*

Cargo Hatchways.-(Upper Deck) *Three* Thickness of Hatches *2 1/2 W. W.*

Size of No. 1 Hatchway (Forward) *32'-7" x 20'* No. 2 *32'-7" x 20'* No. 3 *32'-7" x 18'-0"* No. 4 *✓* No. 5 *✓* No. 6 *✓*

Number of Shifting Beams and/or Fore and Afters *6 Beams each hatch no fore afters*

FOR R. & W. HAWTHORN, LESLIE & Co. LIMITED.

Builder's Signature *R. W. Hawthorn*

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 approved plans, the Committee's instructions & the Societies' Rules. The material & workmanship are good, & to my satisfaction. All double bottom, deep & peak tanks have been tested as required by the rules & found satisfactory. All weather decks, W.T. bulkheads, & tunnel have been hose tested (or pressure tested) & found satisfactory. The assigned freeboards have been marked on the vessels' sides & cut in, after being verified.*

The amount of Entry Fee ..... £ *5* : - : Fees applied for *58 JUN 1935*

Special Survey Fee.... £ *117* : 8 : 0 Received by me, *13/6/35*

Travelling Expenses, if any £ : : I am of opinion the Vessel should be Classed *+100 A1*.

State whether the Vessel has been built under Special Survey *Yes* Signature *P. W. Webster*

Certificate to be sent to *Newcastle-on-Tyne* Date of issue *18/6/35* Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE. 18 JUN 1935*

Character assigned *+100 A1*

The Surveyors are requested not to write on or below the Committee's Minute.



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.)

The forging certificates, & approved plans & in numbers are forwarded herewith

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

1st Bower	14.2.18.	JA.	390.	3/4/35
2nd "	14.2.22	JD.	403.	10/4/35.
3rd "	12.1.0.	JD.	388.	3/4/35.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. } 13.08' ft., Bridge — ft., Forecastle 21.83 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated Combined Poop & bridge

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

Official No. 160745. ; Signal Letters  
Is bottom of Vessel coated with cement in B. Room only if not give  
particulars of composition own bulges. Camrex green paint and cement work elsewhere

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft, ✓			Fore peak tank,	12'-3"	38.7
Double bottom, under Engines and Boilers, ✓			After peak tank,	11'-6"	24.3.
Double bottom, if under Engines only, 32-42	19'-2"	295.6.	Deep tank, aft, E.P.W.	37'-2"	138.0
Double bottom, if under Boilers only, ✓			Deep tank, forward, ✓		
Double bottom, forward, 51-111	125'-0"	191.2. tons	Other tanks, if fitted, ✓		
Total capacity of double bottom		220	(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. 5485

Date

27.2.35

Dates of Surveys held while building

1935 Jan. 23.30. Feb. 4.6.8.11.13.20.25. Mar. 1.4.6.7.11.13.14.15.19.21.22.25.27.28. Apr. 1.5.8. 11.12.15.17.24.25.26.29.30. May 1.3.8.9.10.27.28.29.31. June 4.

Total No. of Visits

47.