

STEEL STEAMER ~~OF~~ MOTORSHIP

APR 4 '39

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 *31st March 1939* Port of *Newcastle on Tyne* No. *97322*
Survey held at *South Shields* Date First Survey *28th Feb 1938* Last Survey *21st March 1939*
On the *HORN LIEBANK* Machinery *amidships* *Single screw*
State Type *Complete superstructure with Tonnage Opening* State Type of Erections *Tele on Shelter Deck*
TONNAGE under Tonnage Deck... *5070.34* CLASS *+ 100 A 1* State if with freeboard as condition of Class *Yes* Built at *South Shields*
Do. of space or spaces between Tonnage Dk. and Upper Dk. *✓* Length from fore part of stem to after part of stern } L *425.0* Launched *2. 2. '39* Yard No. *515*
Total Gross Tonnage *5568.54* Breadth (greatest moulded) B *56.5* Builders *Messrs John Readhead & Sons Ltd.*
Register Tonnage *3249.39* Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D *37.08* Owners *Bank Line Ltd.*
1st Longitudinal Number (L x D) = *15760* Managers *Andrew Weir & Co Ltd.*
2nd Numeral L x (B + D) = *39770* (Where necessary to be entered in Reg. Book.)
REGISTERED DIMENSIONS. FEET.
Length *435.2* Framing Depth "d," at middle of length. See Sec. 3 (1d) *24.92* Residence
Breadth *56.75* Proportions—Depth to Length—Uppermost continuous deck to top of keel *11.23* Port of Registry *Glasgow*
Depth *26.0* Draught Moulded *25'-8 1/2"* If surveyed while building, afloat, *AND* in dry dock *Yes*

FRAMES, DOUBLE BOTTOM AND BEAMS.

NOTE: All E and F sections are N.B.S.

	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	30		Bracket Floors, Frame	6 x 3 1/2 x .44	✓
" " from 1/2 length amidships to Collision bulkhead.....	27		" " Reversed Frame	5 1/2 x 3 x .44	✓
" " in peaks.....	24		" " Vertical Struts and.....	8 x 3 1/2 x 3 1/2 x .42	✓
PIPE FRAMING.			Centre Girder, depth and thickness amidships	50 x .48	✓
Frame Amidships, Angle, E or F	12 x 3 1/2 x .62	✓	" " top Angle.....	5 x 5 x .48	✓
" " Extends up to	2 nd Deck	✓	" " bottom Angle.....	6 x 6 x .54	✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	One .36	✓
" " Extends up to.....	✓		Margin Plate depth (excl. of flange) and thickness	42 x .54	✓
Depth of Framing Girder.....	12	✓	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	6 x 6 x .46	✓
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	7 x 3 1/2 x .42 on alt. frs.	✓	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	6 x 6 x .46	✓
" " Second 'tween Decks, Angle, E or F	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem.....	every fr. 3 1/2 x 3 1/2 x .46	✓
" " Third " " " "	✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area.....	every fr. 3 1/2 x 3 1/2 x .46	✓
" " from 1/2 len. for'd. to 15% len. from Stem.....	12 x 3 1/2 x .62 with 4 x 4 x .50L reversed when shown on profile.	✓	Tank Side Brackets, height above base line at toe of Frame and thickness)	84 x .46	✓
" " in Peaks, Angle or F	8 x 3 1/2 x .38	✓	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 sp. 5 3/4	✓	Breadth and thickness of Middle Line Strake ...	63 x .50	✓
State if Frame Joggled	Yes	✓	Thickness of remainder in Holds	44	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	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?	Yes	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes	✓	BEAMS.		
NGLE BOTTOM.			Uppermost Continuous Deck, amidships) in Wells, Angle, E or F	9 x 3 1/2 x .52 and as per app. plan	✓
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, E or F	✓	
Height of Brackets at side above base line at toe of frame			Spacing	every frame	✓
Middle Line Keelson, on Floors, Angles, E or F			Second Deck, amidships, Angle, E or F	11 x 3 1/2 x .58 and as per app. plan	✓
" " Through Plate or Intercostal Plate.....			Spacing.....	every frame	✓
" " Foundation Plate on Floors			Third Deck, amidships, Angle, E or F	✓	
" " Flat Plate Keel Angles			Spacing.....	✓	
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, E or F	✓	
" " thickness of Intercostal Plate.....			Spacing.....		
" " Angles			Poop Deck, Angle, E or F	✓	
DOUBLE BOTTOM.			Spacing.....		
Solid Floors, thickness and spacing	39 sp. 7'-6"	✓	Bridge Deck, Angle, E or F	✓	
" " Are Frame and Reversed Frame joggled?	Yes	✓	Spacing.....		
Bracket Floors, breadth and thickness at middle line.....	33 x .39	✓	Forecastle Deck, Angle, E or F	8 x 3 x .46 and as per app. plan	✓
" " breadth and thickness at margin plate.....	39 (mean) .39	✓	Spacing	every frame	✓

Number of
Certificate.

Req. 1.

No. 5572

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To the Secretar

FORGINGS and CASTINGS.

Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
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STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Bonsett Iron Co;*
Dorman Long; Cargo Fleet; Appleby Frodingham; South Durham; Skinningrove Iron Co.
Open hearth

Has the Steel been tested as required by the Rules? yes ✓

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EQUIPMENT No 40645 ✓										LETTER <i>B +</i> ✓		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.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
38273.	1st Bower ...	72	3	21 ✓	STOCKLESS			55	5	0	0	72 1/2 ✓	<i>Byers Improved.</i>	<i>W.L. Byers & Co.</i>	<i>Sunderland 14.4.38 J.H. Bullock</i>
38190.	2nd „ ...	72	3	14 ✓	Do			55	5	0	0	72 1/2 ✓	<i>Do.</i>	<i>Do.</i>	<i>Do. 30.3.38 Do</i>
38306	3rd „ ...	62	2	0 ✓	Do			49	15	0	0	62 ✓	<i>Do.</i>	<i>Do.</i>	<i>Do. 2.5.38 Do</i>
	Collective weight.	208	1	7 ✓								207 ✓			
	Stream	20	2	14 ✓	5	0	18	21	5	3	21	20 1/2 cwt. stock	<i>Iron Stock</i>	<i>Kendrick & Mole Ltd.</i>	<i>Bradley Heath 31.8.38 Paul</i>

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.	Status.	Break- ing.	Supplied.		Per Rule.		Length.	Diam.					Length.	Cir.		Tons.	Fathoms.	Ins.					
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.						
57343	150 ⁵ / ₈	2 ³ / ₈	101 ⁵ / ₁₀	142 ¹ / ₁₀	432.	0.	7	844 ¹ / ₄	300	2 ¹ / ₈	Stud Link	Kendrick & Mole Ltd.	Bradley Heath 31.8.38, Paul.	TOWLINE...	130	5 ¹ / ₂	70.9	130	5						
57344	150 ⁵ / ₈	2 ³ / ₈	101 ⁵ / ₁₀	142 ¹ / ₁₀	431.	3.	2							HAWSERS & WARPS	2@ 100	3	18.6	2@ 100	2 ³ / ₄						
58002	Spare Shackles joining ends Cir.		101 ⁵ / ₁₀	142 ¹ / ₁₀	5.	1.	21	(The first length in each cable is in two parts viz 12 fms & 3 fms. resp.)													2@ 100	3	18.6	2@ 100	2 ³ / ₄
Iron Wire Co Steel Wire	120	5 ⁵ / ₁₆	✓	52.8	✓				120	5	✓														

Steering Gear, Type (Power or hand) *Wilson Pirrie (Telemotor)* Alternative Means of Steering *Steel blocks & wire tackle to winch*

Steering Chains (Size and Test) *✓* Windlass *Steam* *Clarke Chapman Boats* *2 @ 30' x 9' x 3-9"*
2 @ 20' x 6-9" x 2-7"

Ceiling in Holds, thickness and material *2 1/2 W.P. in way of hatchways & bilges* Cargo Battens, thickness, material and spacing *6 x 2" W.P. 15" centres*

Cargo Hatchways.—(Upper Deck) *Reith Type* *Steel plates & built angles* Thickness of Hatches *3"*

Size of Hatchways No. 1 (Fwd.) *29'3" x 22'* No. 2 *32'6" x 22'* No. 3 *32'6" x 22'* No. 4 *32'6" x 22'* No. 5 *32'6" x 22'* No. 6 *✓*

Number of Shifting Beams *4 at each hatchway*
 and/or Fore and Afters

For JOHN READHEAD & SONS. LTD.

Builder's Signature

Chairman & Managing Director.

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) 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 (where required to be inserted in the Notation).

This vessel has been constructed in accordance with the approved plans, the Secretary's letters and generally conforms with the Society's Rules for the class contemplated.

The materials and workmanship are good. ✓

The weather decks, tunnel and watertight bulkheads have been hoisted & found satisfactory. All double bottom tanks, the peak tanks and ash shoot have been watertested as required by the Rules and found satisfactory. ✓

The assigned freeboards have been marked on the vessel's sides, verified and cut in. The windlass, steering gear and watertight doors have been tested with satisfactory results. The vessel has been placed in drydock, the bottom and rudder cleaned, examined, found in good order and recoated. ✓

The amount of Entry Fee £ 9 : 0 : 0

Fees applied for,

(Special notations, where part of class, to be stated.)

Special Survey Fee.... £ 339 : 4 : 6

19

FREEBOARD Travelling Expenses, if any £ 16 : 0 : 0

Received by me,

I am of opinion the Vessel should be Classed *+100 A1 WITH FREEBOARD.*

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

Signature

J. Rennie
 Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Newcastle*

Date of issue *18/4/39.*

Committee's Minute

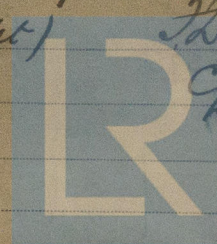
WED 12 APR 1939

Character assigned

+ 100 A1

Lloyd's arch

+ Lmb. 3.39
2 S.B. (Spt.)
1 Aux S.B.



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W130-0062 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.)

The approved plans, in number, & the forging and casting reports are forwarded herewith. A profile and midship section as built will be forwarded later.

Sister vessels - None
Similar vessel - "TEVIOTBANK" N.W. Rpt. N° 95946.

PARTICULARS OF ELECTRIC WELDING (if employed)

No parts of primary structural importance are electrically welded.

The hatch beams, vent coamings, derrick posts, minor blds, saloon house deck and numerous brackets and fittings are electrically welded.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

Cruiser stern.
Gloyds

		C.	g.	lb.			
Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	43	3	3	✓	EE. 273	28. 1. 38
	2nd "	43	3	1	✓	EE. 275	28. 1. 38
	3rd "	36	1	18	✓	EE. 273	31. 12. 37

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle 36.5 ft. ON SHELTER DECK.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 165963 Signal Letters GSGY Extreme Breath over Belting No belting. Over-all Length 451.75' ✓
No. and Material of Decks 1 Deck (steel) & Shelter deck (steel)
Parts of Bottom of Vessel coated with cement or approved composition Boiler room tank, elsewhere cement washed. pt Cem
Particulars of composition (if fitted) and of approval ✓

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length.	Water Capacity	Where Fitted.	Length.	Water Capacity
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	140	458	Fore peak tank,	23	149 ✓
Double bottom, under Engines and Boilers,	✓		After peak tank	24	227 ✓
Double bottom, if under Engines only,	22.5	121	Deep tank, aft,	✓	
Double bottom, if under Boilers only, DRY TANK	20.0	—	Deep tank, forward,	✓	
Double bottom, forward,	188.3	865	Other tanks, if fitted,	✓	
Total length (if continuous) and Capacity	370.8 ✓	1444 ✓	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 5573
Date 1.4.38.
Dates of Surveys held while building
1938 Feb. 28. Mar. 21. Apr. 1. 4. 8. 19. 20. 28. May 11. 12. 19. 28. June 8. 14. 28. July 1. 8. 21. Aug. 2. 4. 5. 6. 8. 10. 11. 12. 16. 18. 22. 25. Sep. 9. 16. 29. Oct. 7. 10. 11. 14. 15. 28. Nov. 1. 4. 7. 8. 9. 10. 14. 16. 21. 22. 24. 28. Dec. 1. 6. 13. 15. 20. 21.
1939 Jan. 4. 5. 11. 12. 13. 19. 23. 25. 27. 30. Feb. 1. 2. 3. 14. 15. 24. 28. Mar. 6. 7. 8. 10. 14. 15. 16. 21.