

STEEL STEAMER OF MOTORSHIP.

- 7 JUL 1941

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

2nd July, 1941

Port of

Sunderland

No. 33,135

Survey held at

Sunderland

Date First Survey

5th June 1940

Last Survey

30th June 1941.

On the (State if Machinery fitted Aft and

Single Screw M/V. "DALTON HALL."

Machinery amidships

State Type (Full Scantling, Complete Superstructure

Intermediate between F5 and C55.

State Type of Erections

None.

TONNAGE under

6486.42

CLASS + 100 A-1.

State if with freeboard

Yes.

Built at

Sunderland

Do. of space or spaces

Length from fore part of stem to after part of stern

L 421.12

Launched

28/12/40

Yard No.

642

Total

Breadth (greatest moulded)

B 56.21

Builders

Wm. Duffell & Son Ltd.

Gross Tonnage

4252.93

Depth, at middle of length from top of keel to top

D 38.04

Owners

West Hartlepool Steam Navigation Co. Ltd.

Register Tonnage

5022.12

1st Longitudinal Number (L x D)

= 15581

Managers

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

2nd Numeral L x (B + D)

= 39252

Residence

Port of Registry

West Hartlepool

If surveyed while building, afloat, or in dry dock

During construction.

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	3 1/2	-	Bracket Floors, Frame	2	6 3/2 40
" " from 1/2 length amidships to Collision bulkhead	24	-	" " Reversed Frame	2	6 3/2 34
" " in peaks	24	-	" " Vertical Struts	2	10 3/2 40
SIDE FRAMING.			Centre Girder, depth and thickness amidships	44 1/2 x 54	-
Frame Amidships, Angle	13 1/2 H 54	-	" " top Angles	8 1/2 3 1/2 48	-
" " Extends up to	2 nd Deck & Upper Deck at H.L. Beam.	-	" " bottom Angles	5 5 50	-
Reversed Frame Amidships, Angle	-	-	Side Girders, No. each side and thickness	One 38	-
" " Extends up to	-	-	Margin Plate depth (excl. of flange) and thickness	40 3/4 x 54	-
Depth of Framing Girder	-	-	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	6 6 45	-
Frames in Uppermost Continuous 'tween Decks, Angle	6 3/2 35	-	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	6 6 45	-
" " Second 'tween Decks, Angle	-	-	" " Gussets, spacing and scantling abaft 1/2 len. from stem	13 1/2 x 42 Continuers.	-
" " Third " " "	-	-	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	20 x 42	60.
" " from 1/2 len. for'd. to 15% len. from Stem	13 1/2 H 60 1/2	-	Tank Side Brackets, height above base line at toe of Frame and thickness	40 x 46	-
" " in Peaks, Angle	8 3/2 38	-	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 @ 5 1/4	-	Breadth and thickness of Middle Line Strake	48 x 50	-
State if Frame Joggled	Yes.	-	Thickness of remainder in Holds	1/4	-
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.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships	8 3/2 35	-
Floors, Depth and thickness at mid-line in Holds	-	-	" " in way of Bridge, Angle	-	-
Height of Brackets at side above base line at toe of frame	-	-	" " Spacing	3 1/2	-
Middle Line Keelson, on Floors, Angles	-	-	Second Deck, amidships, Angle	9 3/2 38	-
" " Through Plate or Intercoastal Plate	-	-	" " Spacing	3 1/2	-
" " Foundation Plate on Floors	-	-	Third Deck, amidships, Angle	-	-
" " Flat Plate Keel Angles	-	-	" " Spacing	-	-
Side Keelsons, No. each side	-	-	Fourth Deck, amidships, Angle	-	-
" " thickness of Intercoastal Plate	-	-	" " Spacing	-	-
" " Angles	-	-	Poop Deck, Angle	-	-
DOUBLE BOTTOM.			" " Spacing	-	-
Solid Floors, thickness and spacing	42 @ 9 1/2	-	Bridge Deck, Angle	-	-
" " Are Frame and Reversed Frame joggled?	Yes.	-	" " Spacing	-	-
Bracket Floors, breadth and thickness at middle line	33 x 42	-	Forecastle Deck, Angle	-	-
" " breadth and thickness at margin plate	33 x 42	-	" " Spacing	-	-

004194-004199-0402 1/2

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Lloyd's Register Foundation

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.....		✓				Stringer Plate, breadth and thickness in way of Bridge	✓		
„ in 'tween Decks, Size and Spacing.....		✓				Thickness of Plating abreast Deck openings in way of Wells	38	✓	
„ „ „ „ „		✓				Thickness of Plating abreast Deck openings in way of Bridge	✓		
„ in Holds „ „		✓				Thickness of Plating within line of openings...	34	✓	
„ „ „ „ „		✓				If Sheathed, material and thickness	✓		
Centre Line Bulkhead. T.O's	3 1/2	3 1/2	40L	✓		Third Deck.			
Stiffeners and Spacing	9	3 1/2	40L	✓		Stringer Plate, breadth and thickness.....	✓		
Plating, thickness of	26			✓		If Plated, state thickness.....	✓		
	30			✓		Fourth Deck.			
STRINGERS AND DECKS.						Stringer Plate, breadth and thickness.....	✓		
Uppermost Continuous Deck.						If Plated, state thickness	✓		
Stringer Plate, breadth and thickness in Wells	40 x 64			✓		Poop Deck.			
„ „ „ „ in way of Bridge	✓					Stringer Plate, breadth and thickness	✓		
„ Angle in Wells	6	6	5/8	✓		Plating, Sheathing, material and thickness	✓		
Thickness of Plating abreast Deck openings in way of Wells	64			✓		Bridge Deck.			
Thickness of Plating abreast Deck openings in way of Bridge	✓					Stringer Plate, breadth and thickness.....	✓		
Thickness of Plating within line of openings...	40			✓		Plating, Sheathing, material and thickness	✓		
If Sheathed, material and thickness	✓					Forecastle Deck.			
Second Deck.						Stringer Plate, breadth and thickness.....	✓		
Stringer Plate, breadth and thickness in Wells	40 x 40			✓		Plating, Sheathing, material and thickness	✓		

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>No.</i>			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.		Inches.
FLAT PLATE KEEL	<i>52</i>	<i>19</i>	<i>69</i>	<i>69</i>	-	<i>Double</i>	<i>1</i>	<i>4</i>	<i>Four</i>	<i>1</i>	<i>3 15/16</i>	<i>Lapped</i>	
„ DBLG. (if any)	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	
BOTTOM PLATING, No. of Strakes <i>4</i>	<i>✓</i>	<i>64</i>	<i>50</i>	<i>63</i>	-	<i>Double</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Four</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Lapped</i>	
BILGE PLATING, No. of Strakes <i>1</i>	<i>✓</i>	<i>64</i>	<i>50</i>	<i>63</i>	-	<i>"</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Four</i>	<i>1/8</i>	<i>3 1/2</i>	<i>"</i>	
SIDE PLATING, No. of Strakes <i>5</i>	<i>✓</i>	<i>63</i>	<i>44</i>	<i>44</i>	-	<i>"</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Three</i>	<i>1/8</i>	<i>3 1/2</i>	<i>"</i>	
UPPER DECK, Sheer-strake in Wells.....	<i>90</i>	<i>64</i>	<i>44</i>	<i>44</i>	-	<i>"</i>	<i>1/8</i>	<i>3 1/2</i>	<i>Four</i>	<i>1/8</i>	<i>3 1/2</i>	<i>"</i>	
UPPER DECK, Sheer-strake in Bridge ...	<i>✓</i>												
STRAKE BELOW Sheer-strake in Wells.....	<i>✓</i>		<i>14</i>	<i>59 in plating area.</i>	<i>✓</i>								
STRAKE BELOW Sheer-strake in Bridge ...	<i>✓</i>		<i>⊗</i>	<i>3 strakes to forward of 1/2 length from forward L. Cal. Bldg.</i>	<i>✓</i>								
POOP SIDE PLATING	<i>✓</i>												
BRIDGE SIDE PLATING ...	<i>✓</i>												
FOREC'TLE SIDE PLATING	<i>✓</i>												

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	Seven
Extending to Upper Deck (Sec. 3 c)	✓
„ Deck next below	✓
As per Rule	Seven.

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	✓	✓	✓	✓
STEM	✓	✓	✓	✓
STERN FRAME	Propeller Post	C.S. 100	16 1/2 x 13 + 14 1/2 x 13	✓
	Rudder	✓	✓	✓
Speed of Vessel	11 1/2 knots.			
RUDDER—Type	✓			
„ A x D	✓			
„ Diam. of head	8 1/2 x 12			
„ Mainpiece at top pintle	8 1/2			
„ „ heel	8 1/2			
„ how constructed	Built			
„ double or single plate	Double			
„ coupling, vertical or horizontal	Horizontal.			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper 'tween decks	26	5 x 3 x 30L	30	✓	✓
„ „ Second	28	6 x 3 x 30L	30	✓	✓
„ „ Third	24	5 x 3 x 34L	30	✓	✓
„ „ Holds	30-26	12 x 3 x 45L	28	✓	✓
COLLISION	48-32	9 x 3 x 38L	24	One semi. box.	✓
	70-26	8 x 3 x 32L	24	✓	✓
AFTER PEAK	41 x 42-30	8 x 3 x 42L	24	One semi. box.	✓

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	✓
	Obuse; Appleby; Nottingham; Cargo Fleet; Calcutta; Norman Long; South Durham	✓
	Has the Steel been tested as required by the Rules?	Yes.

EQUIPMENT No 40109												LETTER 27	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.					
40312	1st Bower ...	68	0	26	-	✓		52	15	2	14	✓	68	-	Byers Imp. Stockless	✓	Sea. 6/11/40. Norman.
40313	2nd „ ...	68	0	20	-	✓		52	15	2	14	✓	68	-	do.	✓	Sea 6/11/40 Norman.
	3rd „ ...												58½	-			
	Collective weight.												19½	-	Br. Angus W.T.	✓	Endy West 10/1/41. Paul.
53810	Stream	19	2	4	✓	✓	✓	20	6	1	0		19	-			

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.	
	Fathoms.	Diam.	Statutory.	Break-ing.	Supplied.	Per Rule.			Fathoms.	Ins.					Fathoms.	Ins.		Fathoms.	Ins.
21382	226	2 3/16	96.75	134.75	606-1-19	720.75			240	2 3/16	Steel	✓	Sea. 3/12/40. Norman.	TOWLINE...	120	2 3/4	64.6	120	2 3/4
														HAWSERS & WARPS	2090	2 3/4	15.2	2090	2 3/4
															2090	2 1/2	13.2	2090	2 1/2
Iron Stream Chain or Steel Wire	90	5"		52.8					90	5"	5-w.	✓							

Steering Gear, Type (Power ~~on hand~~) *Dunkin 4 1/2 x 4* Alternative Means of Steering *Block & tackle L. after winches.*

Steering Chains (Size and Test) *✓* Windlass *Emerson Walker 10 x 12 1/2* Boats *1 - 26.6' wood roller boat*
1 - 25.8' - life
1 - 18.6
1 - 18.5

Ceiling in Holds, thickness and material *Lining over linkers only. T.T. 4-08 under hatchways.* Cargo Battens, thickness, material and spacing *Not fitted. Cleats fitted.*

Cargo Hatchways.-(Upper Deck) *With patent* Thickness of Hatches *2 1/8*

Size of Hatchways No. 1 (Fwd.) *31'-6" x 22'* No. 2 *31'-6" x 22'* No. 3 *31'-6" x 22'* No. 4 *31'-6" x 22'* No. 5 *31'-6" x 22'* No. 6 *✓*

Number of Shifting Beams and/or Fore and Afters *5 5 5 5 5*

Builder's Signature *WILKINSON DOXFORD & SONS, Limited,*
Ramsay Reelie 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 *Motor Ship.*
 (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 built in accordance with the approved plans, the Secretary's letters of various dates and in general conformity with the requirements of the Rules. The materials & workmanship are good. Oil fuel, F.P. 150°F, is carried in Nos. 2, 3, 5, 6 & 7 double bottom tanks & the requirements of Section 20 of the Rules, so far as applicable, have been complied with. The double bottom tanks, copper tanks, deep and peak tanks have been tested under water pressure and the upper and 2nd decks, watertight bulkheads, tunnels & tween deck doors have been hose tested as required by the Rules & found satisfactory. The steering gear, auxiliary means of steering, winch, hand pump, have been tested under working conditions whilst moored in the River. The vessel is fitted with "Whistles and Directional buoys". Scupper pipes from tween decks are led to the bilges, with self closing cocks in Engine Room only. The equipment of anchors & cables have been reduced as per Secretary's letters 22/2/40 & 21/9/40. The freeboards have been marked on the vessel's sides, verified & cut in. No hatch covers are fitted on the 2nd deck. Cargo battens not fitted but cleats fitted in holds & tween decks.

The amount of Entry Fee £ 10 : - : - Fees applied for, *1 JUL 1941* (Special notations, where part of class, to be stated.)

Special Survey Fee.... £ 381 : 6 : 6 Received by me, *3 JUL 1941* I am of opinion the Vessel should be Classed *+ 100. A.1.*
Freeboard 18 0 0 *with freeboard.*

Travelling Expenses, if any £ : ✓ : -

State whether the Vessel has been built under Special Survey *Yes.* Signature *A. A. Mori.*
 Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Sunderland.* Date of issue *23/7/41*

Committee's Minute *FRI. 11 JUL 1941*

Character assigned *+ 100 A1*
With freeboard
Lloyd's anch.
note for S.R.L.
Wide 9 ft
17 ft
5 ft

+ Lmb. 6.41
2 S.B. - 120 ft
oil tank

Lloyd's Register Foundation

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.)

Sister to same builders No 669. "Empire Mist"

Plans re

Midship Section as fitted.

Propeller & Decks

Forging Reports

PARTICULARS OF ELECTRIC WELDING (if employed)

Flathead and Quasi-arc Breasthead electrodes.
Parts welded: 2nd deck stringer to shell: Deep and peak tank girders: Rudder plates:
Bulkhead stiffener brackets to tank top: Hatch lub mounting bars: Hatch:
Utilisator cranes to deck: Tank side gussets.

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

Oil Eng. - D.F. ✓ (Cargo bottom not fitted.)
Lloyds. A.R.C.P. - Cruiser Stern.

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

1st Bower
2nd "
3rd "

39-3-Y-J.D-3192-16-8-40 /
40-0-H-J.T-3320-22-7-40. /

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 or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 168926 Signal Letters G.Q.X.G. Extreme Breadth over Belting Over-all Length 442'-11 1/4"

No. and Material of Decks 2 Decks (Steel)

Parts of Bottom of Vessel coated with cement or approved composition Nos 1 & 4 double bottom tanks, cofferdams & bilges.

Particulars of composition (if fitted) and of approval Cement.

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in 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,	123.4	355	Fore peak tank,	24	134
Double bottom, under Engines and Boilers, S.W.	10.5	50	After peak tank,	18	155
Double bottom, if under Engines only,	23.6	84	Deep tank, aft,		
Double bottom, if under Boilers only, Cofferdams	5.2		Deep tank, forward, Bulk ships	28.8	1205
Double bottom, forward,	193.2	693	Other tanks, if fitted,		
Total length (if continuous) and Capacity	356.2	1182	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 5951

Date 28.5.40

Dates of Surveys held while building

1940. June 5, 18. July 16. Aug. 5, 8, 12, 14, 15, 16, 26. Sep. 4, 6, 10, 11, 13, 16, 17, 19, 26, 30. Oct. 4, 8, 11, 14, 18, 21, 25, 29, 31. Nov. 1, 6, 12, 13, 14, 18, 20, 29. Dec. 3, 6, 9, 13, 16, 17, 18, 19, 20, 24, 27, 28. Jan. 1, 7, 12, 15, 20. June. 8, 14, 16, 19, 22, 23, 24, 25, 26, 27, 28, 30.

Total No. of Visits 71