

## STEEL STEAMER or MOTORSHIP.

Received at London Office 19 DEC 1941

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 18<sup>th</sup> December 1941 Port of Sunderland No. 33270Survey held at Sunderland Date First Survey 12<sup>th</sup> May 1941 Last Survey 13<sup>th</sup> December 1941On the (State if Machinery fitted Aft and) *SS. EMPIRE HALLEY* Single ScrewState Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Intermediate between F.S. & C.S.S.* State Type of Erections *W.H.*TONNAGE under 6722.38 CLASS +100 A.I. State if with freeboard as condition of Class *YES.* Built at SunderlandDo. 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 416'-0"* Launched 26.9.41 Yard No. 612Breadth (greatest moulded) *B 56'-10 1/2"* Builders *J.L. Thompson & Sons Ltd.*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'-4"* Owners *Ministry of War Transport.*1st Longitudinal Number (L x D) *D=36.58 = 15217* Managers *W.J. Gould & Co. Ltd.*2nd Numeral L x (B + D) *D=36.58 = 38877* (Where necessary to be entered in Reg. Book.)Framing Depth "d." at middle of length. See Sec. 3 (1d) *11'-14"* ResidenceProportions—Depth to Length—Uppermost continuous deck to top of keel *11'-14"* Port of Registry *Sunderland*Do. Long Bridge to top of keel *26'-9 3/8"* If surveyed while building, afloat, or in dry dock *YES.*Draught Moulded *26'-9 3/8"*

## 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.
<b>FRAMES, Spacing amidships</b>	30	✓	<b>Bracket Floors, Frame</b>	✓	
" " from 3/4 length amidships to Collision bulkhead	27	✓	" " Reversed Frame	✓	
" " in peaks	24	✓	" " Vertical Struts	✓	
<b>DE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	43 1/2 x 54	✓
Frame Amidships, Angle, [ or ]	12 x 4 x 4 x 9/16	✓	" " top Angles	3 1/2 x 3 1/2 x 7/16	✓
" " Extends up to	2 <sup>nd</sup> Deck	✓	" " bottom Angles	4 x 4 x 1/2	✓
Reversed Frame Amidships, Angle	✓		<b>Side Girders, No. each side and thickness</b>	One 6 x 3 1/2 x 7/16	continuous top & bottom
" " Extends up to	✓		<b>Margin Plate</b> depth (excl. of flange) and thickness	41 x 54	✓
Depth of Framing Girder	12	✓	" " Vertical Angle to Tank side	6 x 4 x 7/16 T	✓
Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]	6 x 3 1/2 x 1/2	✓	" " Bracket abaft 1/4 len. from stem	6 x 6 x 1/2 T	✓
" " Second 'tween Decks, Angle, [ or ]	✓		" " Vertical Angle to Tank side	10 1/2 x 40 x 1/2	continuous
" " Third " " " "	✓		" " Bracket from forward 1/4 len. from stem to Panting Area	17 x 40 x 1/2	do.
" " from 1/4 len. for'd. to 15% len. from Stem	15 x 4 x 4 x 1/2	✓	" " Gussets, spacing and scantling abaft 1/4 len. from stem	10 1/4 x 45	✓
" " in Peaks, Angle or [	8 x 3 1/2 x 3/5	✓	<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	59 1/2 x 50	increased by .01 under hatchways
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 5 3/4	✓	<b>INNER BOTTOM PLATING.</b>		
State if Frame Joggled	YES	✓	Breadth and thickness of Middle Line Strake	44	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	YES.	✓	Thickness of remainder in Holds	YES.	✓
Are the scantlings and arrangements in way of the Bottom Forward 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?		
<b>INGLE BOTTOM.</b>			<b>BEAMS.</b>		
Floors, Depth and thickness at mid-line in Holds	✓		Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]	8 x 3 1/2 x 7/16	✓
Height of Brackets at side above base line at toe of frame	✓		" " in way of Bridge, Angle, [ or ]	✓	
Middle Line Keelson, on Floors, Angles, [ or ]	✓		Spacing	every 4	✓
" " Through Plate or Intercoastal Plate	✓		<b>Second Deck, amidships, Angle, [ or ]</b>	12 x 4 x 4 x 7/16	✓
" " Foundation Plate on Floors	✓		Spacing	every 4	✓
" " Flat Plate Keel Angles	✓		<b>Third Deck, amidships, Angle, [ or ]</b>	✓	
Side Keelsons, No. each side	✓		Spacing	✓	
" " thickness of Intercoastal Plate	✓		<b>Fourth Deck, amidships, Angle, [ or ]</b>	✓	
" " Angles	✓		Spacing	✓	
<b>DOUBLE BOTTOM.</b>			<b>Poop Deck, Angle, [ or ]</b>	✓	
Solid Floors, thickness and spacing	36 every 4	✓	Spacing	✓	
" " Are Frame and Reversed Frame joggled?	YES.	✓	<b>Bridge Deck, Angle, [ or ]</b>	✓	
Bracket Floors, breadth and thickness at middle line	✓		Spacing	✓	
" " breadth and thickness at margin plate	✓		<b>Forecastle Deck, Angle, [ or ]</b>	✓	
			Spacing	✓	



## 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>	One ✓		Stringer Plate, breadth and thickness in way of Bridge .....	✓	
„ in 'tween Decks, Size and Spacing.....	6x6x $\frac{3}{8}$ OA @ 5'-0" ✓		Thickness of Plating abreast Deck openings in way of Wells .....	.35 ✓	
„ „ „ „ „	✓		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 .....	✓	
<b>Centre Line Bulkhead, in Holds.</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....	12x3 $\frac{1}{2}$ x $\frac{1}{2}$ L @ 5'-0" ✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of .....	.30 ✓		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	61 $\frac{1}{2}$ x64 ✓		If Plated, state thickness .....	✓	
„ „ „ „ in way of Bridge	✓		<b>Poop Deck.</b>		
„ Angle in Wells .....	6x6x $\frac{5}{8}$ ✓		Stringer Plate, breadth and thickness .....	✓	
Thickness of Plating abreast Deck openings in way of Wells .....	.55 ✓		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...	.40 ✓		Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness .....	✓		Plating, Sheathing, material and thickness ...	✓	
<b>Second Deck.</b>			<b>Forecastle Deck.</b>		
Stringer Plate, breadth and thickness in Wells...	49 $\frac{1}{2}$ x43 ✓		Stringer Plate, breadth and thickness.....	✓	
			Plating, Sheathing, material and thickness ...	✓	

## SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing or to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.	Inches.	Inches.	
FLAT PLATE KEEL .....	52	.78	.68	.68		D	$\frac{7}{8}$ 3 $\frac{1}{3}$	4	1	4	L
„ DBLG. (if any) .....	✓										
BOTTOM PLATING, No. of Strakes .....		.65	.65	.50		D	$\frac{7}{8}$ 3 $\frac{1}{3}$	4	$\frac{7}{8}$ 3 $\frac{1}{2}$	L	
BILGE PLATING, No. of Strakes .....		.60	.65	.50		D	$\frac{7}{8}$ 3 $\frac{1}{3}$	3	$\frac{7}{8}$ 3 $\frac{1}{8}$	L	
SIDE PLATING, No. of Strakes .....		.60	.50	.50		D	$\frac{7}{8}$ 3 $\frac{1}{3}$	3	$\frac{7}{8}$ 3 $\frac{1}{8}$	L	
UPPER DECK, Sheer-strake in Wells .....		.60	.56	.50		D	$\frac{7}{8}$ 3 $\frac{1}{3}$	3	$\frac{7}{8}$ 3 $\frac{1}{8}$	L	
UPPER DECK, Sheer-strake in Bridge ...	72	.74	.45	.45		D	$\frac{7}{8}$ 3 $\frac{1}{3}$	4	1	4	L
STRAKE BELOW Sheer-strake in Wells .....	78	.60	.45	.45		D	$\frac{7}{8}$ 3 $\frac{1}{3}$	3	$\frac{7}{8}$ 3 $\frac{1}{8}$	L	
STRAKE BELOW Sheer-strake in Bridge ...											
POOP SIDE PLATING .....											
BRIDGE SIDE PLATING ...											
FORECASTLE SIDE PLATING											

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel—</b>	5 DIVISIONAL WT BHs in 'tween dks
Extending to Upper Deck (Sec. 3 c)	7
„ Deck next below	1
As per Rule	7

## 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>Speed of Vessel .....</b>				
<b>RUDDER—Type.....</b>				
„ A x D .....		282.2 ✓		
„ Diam. of head .....		9 $\frac{1}{2}$ ✓		
„ Mainpiece at top pintle .....		12 ✓		
„ „ heel ...		9 $\frac{1}{4}$ ✓		
„ how constructed .....		Fabricated ✓		
„ double or single plate .....		.62 ✓		
„ coupling, vertical or horizontal .....		Horizontal ✓		

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKH'D, Upper tween decks</b>	Nº 93	.26	6x3 $\frac{1}{2}$ x $\frac{3}{8}$ OA		
„ „ Second „					
„ „ Third „					
„ „ Holds .....		39-26	12x3 $\frac{1}{2}$ x $\frac{1}{2}$ L	31	
<b>COLLISION</b> „ (in Hold) .....		53-33	7x3x $\frac{3}{8}$ L	24	Plat. 2 S.B. beams
<b>AFTER PEAK</b> „ „ .....		49-30	7x3x $\frac{3}{8}$ L	24	Recessed 4 ft. 2 S.B. beams

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	Appleby Frodingham, Bonsett, Borman Long, South Durham, Shinningrove, Colvilles, Cargo Fleet
	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.)

No 5 D.B. (Boiler room) tank, port side, was examined internally throughout on account of indented shell plating, stated to have been caused by fouling an anchor during the launch of the vessel on 26<sup>th</sup> September 1941. It was found that "C" strake plating was set up about 1/2" between floors over four spaces, the cement on the shell being broken. The rivets in the floors & through the shell in the vicinity were tested and found to be sound. The broken cement has been renewed. No leakage was found, and the damage is considered to be too slight to necessitate raising.

Additional stiffening in fore peak tank for navigation in ice has been effected by means of timber, 12"x4" P.P. stingers between steel stingers, with 6"x6" P.P. cross ties being fitted. The shell plating has been reinforced by P.P. wedges, bolted in position.

Additional temporary accommodation has been fitted in No. 5 tween deck, starboard side.

Sister Vessel SS. EMPIRE LIBERTY SLD. RPT. N<sup>o</sup> 33249.

PARTICULARS OF ELECTRIC WELDING (if employed) Second deck stringer plate welded to shell, T.S. gussets welded to tank top & to T.S. brackets, tween deck pillars welded to deck, & bulkhead stiffeners welded to tank top, ventilator coamings and small latches welded to deck.

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

D.F.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	including pin 1st Power	44	1	7	J.D.	3576	11.3.41
	2nd "	44	3	0	G.G.Y.	3918	18.4.41
	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 or Forecastle are joined to the B.D., this should be distinctly stated ☒

Official No. 169001 Signal Letters Extreme Breadth over Belting ☒ (Circ. 1611) Over-all Length 441'-5" (Circ. 1703)  
No. and Material of Decks 2 decks (steel)  
Parts of Bottom of Vessel coated with cement or approved composition All D.B. tanks cemented.

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 in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	135.00	306	Fore peak tank,	23	145
Double bottom, under Engines and Boilers,			After peak tank,	24	160
Double bottom, if under Engines only,	25.00	106	Deep tank, <del>ft</del> <input checked="" type="checkbox"/>	20	773
Double bottom, if under Boilers only,	20.00	—	Deep tank, forward,		
Double bottom, forward,	188.25	648	Other tanks, if fitted,		
Total length (if continuous) and Capacity	368.25	1060	(If necessary, furnish further information by sketch.)		

Order for Special Survey No 5982

Date 31.3.41

Dates of Surveys held while building

1941. May. 12, 14, 16, 20, 21, 23, 29. June. 3, 5, 6, 9, 12, 14, 19, 20, 24, 25, 27, 30. July. 1, 2, 3, 7, 9, 14, 16, 18, 29, 31. Aug. 1, 5, 8, 11, 12, 13, 14, 18, 19, 20, 21, 25, 27, 28, 29. Sep. 1, 3, 5, 8, 10, 11, 16, 18, 22, 23, 25, 26. Oct. 10, 28, 30, 31. Nov. 12, 14, 17, 21, 24, 25, 27, 28, 29. Dec. 3, 8, 13

Total No. of Visits 72