

Rpt. 1.

STEEL STEAMER OR MOTORSHIP.

Received at London Office

- 2 AUG 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

30th July 1941Port of *West Hartlepool*

No. 18173

Survey held at *West Hartlepool*Date First Survey *19th November, 1940*Last Survey *29th July,*

1941

On the

(State if Machinery fitted Aft and if Single, Twin or Triple Screw)

*Single Screw**"Empire Sledge"**Machinery Aft.*

State Type

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

Full Scantling

State Type of Erections

R. Q. S. dk. + Fcl

TONNAGE under Tonnage Deck...

*2122.68*CLASS *+ 100 A-1*

State if with freeboard as condition of Class

*NO*Built at *West Hartlepool*Launched *11th June 1941* Yard No. *1117*Builders *Wm Gray & Co. Ltd*Owners *The Ministry of Shipping*Managers *R. L. Jones*

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

Residence *Newport-Mon.*Port of Registry *West Hartlepool*

If surveyed while building, afloat, or in dry dock

Building, afloat + in dry dock.

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

Total

Gross Tonnage

2852.41

Register Tonnage

1579.51

REGISTERED DIMENSIONS.

FEET.

Length

310.6

Breadth

44.45

Depth

19.40

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

L 305.83

Breadth (greatest moulded)

B 44.25

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

D 21.50

1st Longitudinal Number (L x D)

= 6575

2nd Numeral L x (B + D)

= 20108

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

14.22

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

11.65

Do. Longitudinal to top of keel

19.25

Draught Moulded

19.25

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	<i>24</i>		Bracket Floors, Frame	<i>✓</i>	
" " from $\frac{3}{8}$ length amidships to Collision bulkhead	<i>24</i>		" " Reversed Frame	<i>✓</i>	
" " in peaks	<i>24</i>		" " Vertical Struts	<i>✓</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>36 x 44</i>	
Frame Amidships, Angle, <i>E</i> or <i>F</i>	<i>9 3 1/2 3/8</i>	<i>8 x 3 1/2 x 7/16</i>	" " top Angles	<i>9 3 3/8</i>	
" " Extends up to <i>Upper deck</i>	<i>9 3 1/2 7/16</i>		" " bottom Angles	<i>3 1/2 3 1/2 7/16</i>	
<i>R. Q. S. dk.</i> Reversed Frame Amidships, Angle <i>7</i>	<i>9 3 1/2 7/16</i>		Side Girders, No. each side and thickness	<i>2 - 30</i>	
" " Extends up to <i>R. Q. S. dk.</i>	<i>9</i>	<i>8 x 9</i>	Margin Plate, depth (excl. of flange) and thickness	<i>34 x 40</i>	
Depth of Framing Girder	<i>9</i>	<i>8 x 9</i>	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem	<i>3 x 3 x 3/8 A + 6 1/2 x 6 1/2 x 5/8 T every 24"</i>	
Frames in Uppermost Continuous tween Decks, Angle, <i>E</i> or <i>F</i>	<i>✓</i>		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{2}$ len. from stem to Panting Area	<i>3 x 3 x 3/8 A + 6 1/2 x 6 1/2 x 5/8 T every 24"</i>	
" " Second tween Decks, Angle, <i>E</i> or <i>F</i>	<i>✓</i>		" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	<i>✓</i>	
" " Third " " " " "	<i>✓</i>		" " Gussets, spacing and scantling from forward $\frac{1}{2}$ len. from stem to Panting Area	<i>✓</i>	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	<i>7 9 3 1/2 3/8</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>36" above Margin x .97 flanged.</i>	
" " in Peaks	<i>7 3 3/8</i>		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>3/4 - 5/8</i>		Breadth and thickness of Middle Line Strake	<i>83 1/2 x .56</i>	<i>46 x .42</i>
State if Frame Joggled	<i>yes</i>		Thickness of remainder in Holds	<i>.56</i>	<i>.36</i>
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>yes</i>		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?	<i>yes.</i>	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<i>yes</i>		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, <i>E</i> or <i>F</i>	<i>6 3 1/2 3/8</i>	<i>1/2 beams.</i>
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, <i>E</i> or <i>F</i>	<i>8 3 1/2 7/16</i>	<i>Thro:</i>
Height of Brackets at side above base line at toe of frame			Spacing	<i>24</i>	
Middle Line Keelson, on Floors, Angles, <i>E</i> or <i>F</i>			<i>Quarls.</i> Second Deck, amidships, Angle, <i>E</i> or <i>F</i>	<i>6 3 1/2 3/8</i>	<i>1/2 beams.</i>
" " Through Plate or Intercostal Plate			Spacing	<i>8 3 1/2 7/16</i>	<i>Thro:</i>
" " Foundation Plate on Floors			Third Deck, amidships, Angle, <i>E</i> or <i>F</i>	<i>✓</i>	
" " Flat Plate Keel Angles			Spacing	<i>✓</i>	
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, <i>E</i> or <i>F</i>	<i>✓</i>	
" thickness of Intercostal Plate			Spacing	<i>✓</i>	
" Angles			Poop Deck, Angle, <i>E</i> or <i>F</i>	<i>✓</i>	
DOUBLE BOTTOM.			Spacing	<i>✓</i>	
Solid Floors, thickness and spacing	<i>34 Cothy</i>		Bridge Deck, Angle, <i>E</i> or <i>F</i>	<i>✓</i>	
" " Are Frame and Reversed Frame joggled	<i>Frame yes</i>		Spacing	<i>✓</i>	
Bracket Floors, breadth and thickness at middle line	<i>None</i>		Forecastle Deck, Angle, <i>E</i> or <i>F</i>	<i>6 3 1/2 7/16</i>	<i>7 x</i>
" " breadth and thickness at margin plate	<i>None</i>		Spacing	<i>24</i>	

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	✓	
„ „ „ „ „	✓		Thickness of Plating abreast Deck openings in way of Bridge	✓	
„ in Holds „ „	None		Thickness of Plating within line of openings...	✓	
„ „ „ „ „	✓		If Sheathed, material and thickness	None	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	✓		If Plated, state thickness.....	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	6 1/2 x 1.0		If Plated, state thickness	✓	
„ „ „ „ in way of Bridge	✓		Poop Deck.		
„ Angle in Wells	6 6 5/8		Stringer Plate, breadth and thickness	✓	
Thickness of Plating abreast Deck openings in way of Wells	7/8 sloping sides of hatch.		Plating, Sheathing, material and thickness ...	✓	
Thickness of Plating abreast Deck openings in way of Bridge	✓		Bridge Deck.		
Thickness of Plating within line of openings...	4 1/4	4 1/4 x .56	Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness	✓		Plating, Sheathing, material and thickness ...	✓	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	5 3/8 x .68		Stringer Plate, breadth and thickness.....	3 1/2 x .92	
			Plating, Sheathing, material and thickness30	

SHELL PLATING.

SCANTLINGS.						RIVETING. <i>Amish Ship</i>							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled?			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing or to cr.		Diam.	Spacing or to cr.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	45	.60	.56	.56		Double	7/8	3 1/2	Treble	7/8	2 3/4	Lapped	
„ DBLG. (if any)													
BOTTOM PLATING, No. } of Strakes 3 }	A B C	.45 .50 .45	.46	.40	.40 Rule at ends	Double	7/8	3 1/2	Treble	7/8	3 1/8	"	
BILGE PLATING, No. of } Strakes 1 }	D	.48	.47	.40	"	.	7/8	3 1/2	Treble	3/4	2 5/8	Stripped	
SIDE PLATING, No. of } Strakes	E	.50	.47	.40	"	"	7/8	3 1/2	"	7/8	3 1/8	Lapped	
UPPER DECK, Sheer- } strake in Wells.....	81"	.68	.40			✓	✓	✓	Quasi	7/8	3 1/2	"	
UPPER DECK, Sheer-) strake in Bridge RQTak		.55	-	.40		Double	7/8	3 1/2	Treble	7/8	3 1/8	"	
STRAKE BELOW Sheer-) strake in Wells.....		.60	.47	-	.40 ends	"	7/8	3 1/2	"	7/8	3 1/8	"	
STRAKE BELOW Sheer-) strake in Bridge RQT		.45	-	.40	"	"	7/8	3 1/2	"	7/8	3 1/8	"	
POOP SIDE PLATING..... R.Q. Sheerstrake }	62 1/2	.54	-	.40		✓	✓	✓	Treble	7/8	3 1/8	"	
BRIDGE SIDE PLATING }						bottom beam single	7/8	3 1/2	single	3/4	2 5/8	"	
FORE'C'TLE SIDE PLATING			.36										

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) *2 Plus 2 deep tank bulkheads*

Deck next below 1 (aft peak brd)
brd omitted in fore hold.

As per Rule 5.

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D,	Upper tween decks					
"	Second "					
"	Third "					
"	Holds					
COLLISION	(in Hold)					
AFTER PEAK	"					

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				
Rudder				
Speed of Vessel				
RUDDER—Type				
" A x D				
" Diam. of head				
" Mainpiece at top pintle				
" " heel				
" how constructed				
" double or single plate coupling, vertical or horizontal				

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

Spurr Durham S. & P. Co.

Dorman Long & Co:
Cotton 27 1/2 14 9

Skinnergrove S. & J. C.
American St.

Consett Iron Co:

Has the Steel been tested as required by the Rules?

yes.

West Iron Co:

EQUIPMENT No. <i>2147H.</i>										LETTER <i>C</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.			
<i>40473</i>	1st Bower ...	<i>42</i>	<i>1</i>	<i>0</i>	<i>Stockless</i>	<i>37</i>	<i>6</i>	<i>1</i>	<i>0</i>	<i>42</i>	<i>Byon Imp. Stockless</i>	<i>✓</i>	<i>20/1/41</i>	<i>L. V. Norman</i>	
<i>40371</i>	2nd „ ...	<i>42</i>	<i>0</i>	<i>3</i>	<i>„</i>	<i>37</i>	<i>4</i>	<i>1</i>	<i>14</i>	<i>42</i>	<i>„</i>	<i>✓</i>	<i>20/1/40</i>	<i>„</i>	
	3rd „ ...														
	Collective weight.														
<i>53887</i>	Stream	<i>11</i>	<i>2</i>	<i>0</i>	<i>2</i>	<i>3</i>	<i>21</i>	<i>13</i>	<i>7</i>	<i>2</i>	<i>0</i>	<i>11</i>	<i>Rodgers forged 122</i>	<i>Kinchuck + Mole C.H.</i>	<i>24/1/41 L.E. Paul.</i>

CHAIN CABLES.										HAWERS 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.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.	Length.	Cir.					Fathoms.	Ins.		Tons.	Fathoms.
63401	105½	17⁄8	63¼	88½	187.2	7	372¾ for	240 rule	17⁄8	Stud	Kinchuck Mole C.H.	29/5/41 L.E. Paul.	TOWLINE...	100	4	33.2	100	4	
63400	105	17⁄8	63¼	88½	188.0	0	2108 no			"	"	"	"	HAWERS & WARPS	2-90	2½	13.2	290	2½
	30						Emergency requirements								2-90	2¾	10.8	2-90	2¾
Iron Stream Chain or Steel Wire	75	4¼	✓	36.4					75	4¼	✓								

Steering Gear, Type (Power or hand) *J. Foster & Co. Steam & Tel. Control* Alternative Means of Steering *Blocks & tackle to which*

Steering Chains (Size and Test) *✓* Windlass *Type Metal Co. Ltd.* Boats *1st 25.0 x 7.75 x 3.25*

Ceiling in Holds, thickness and material *3/4" in way of frames brackets P & S.* Cargo Battens, thickness, material and spacing *None.*

Cargo Hatchways. (Upper Deck) *Steel plates & Angles.* Thickness of Hatches *3"*

Size of Hatchways No. 1 (Fwd.) *37'-9" 28'-0"* No. 2 *41'-9" 28'-5"* No. 3 *33'-9" 28'-5"* No. 4 *35'-9" 26'-9"* No. 5 *28'-4"* No. 6

Number of Shifting Beams and/or Fore and Afters *6 7 5 5*

Builder's Signature *FOR WILLIAM GRAY & CO. LIMITED*
Thos. S. Simpson
 GENERAL MANAGER.

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 letter & specifications (amended), and generally conforms with the Society's Rules for the class contemplated. The materials and workmanship are good. All double bottom tanks, peak tanks, and deep tank have been tested by the rules & found satisfactory. The weather decks, W.T. bulkheads, W.T. door to tunnel through bunker & tunnel have been satisfactorily tested. The assigned freeboards have been marked on the vessel's sides. Verified & cut-in.

The windlass & steering gear have been satisfactorily tried under working conditions.

The amount of Entry Fee £ *6* : - : - Fees applied for, (Special notations, where part of class, to be stated.)

Special Survey Fee. £ *272* : - : - Received by me, 19.

Supervision of specification *Freeboard*

Travelling Expenses, if any £ *13* : - : - 19.

I am of opinion the Vessel should be Classed *+100A.1.*

State whether the Vessel has been built under Special Survey *Yes.* Signature *L. J. C. J.*

Certificate to be sent to *Mr. Hartlepool.* Date of issue *19/8/41* Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 8 AUG 1941*

Character assigned *+100A.1*

Lloyd's arch

Cargo battens not fitted

note for S.R.L.

22. Ch.

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The Surveyor are requested not to write on or below the Committee's Minutes.

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.)

Approved plans + forging reports herewith
Sister Vessel "Empire Hurst" 12m. Gray & Co. No 1116

PARTICULARS OF ELECTRIC WELDING (if employed)

Hatch corners welded with approved electrodes & shoes fitted to deck at fore end of No 1 hatch.
fore end of No 3 hatch, & aft. end of No 4 hatch.

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

4 Bulkhead Intermediate bulkhead dispensed with. Cargo battens not fitted
1 deck Machinery Aft. Notation about equipment

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	2nd "	3rd "	St. inch. Riv.	Surveyor's Initials	No. Cert.	Date of Test.
				C. am. 2	J. T.	3460	25.9.40
				27.2.7	J. T.	3465	27.9.40.
				26.2.17			

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. 174.7 ft., Bridge ft., Forecastle 36.5 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated
Official No. 168928 Signal Letters Extreme Breadth over Belting Over-all Length 321.0
No. and Material of Decks 1 deck steel.
Parts of Bottom of Vessel coated with cement or approved composition Peaks + Roils Room DB tanks cemented Remainder
of D.B. tanks cement filled P. & B room bilge Bituminous enamel.
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.	S.W. Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	28	217
Double bottom, under Engines and Boilers, Off.	42	72	After peak tank,	18	37
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,	218	767	Deep tank, forward,	13'-6"	259
Double bottom, forward,	260	839	Other tanks, if fitted, Deep tank Amidship		
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 2433
Date 24/9/40.
Dates of Surveys held while building
1940. Nov. 19. Dec. 4. 20. 26. 1941. Jan. 6. 9. 16. 27. Feb. 4. 12. 17. 24. March 3. 6. 13. April 1. 8.
11. 15. 18. 22. 24. May 6. 16. 21. 24. June 6. 10. 11. 18. 30. July 2. 7. 8. 9. 14. 15. 17. 18. 21. 22. 23.
24. 25. 26. 28. 29.