

STEEL STEAMER OR MOTORSHIP.

-5 MAY 1943

Received at London Office

State if Report has been sent on the Freeboard of the Vessel. YesState if Report is sent on the Machinery of the Vessel. YesDate of completion of report 16th April 1943Port of HULLNo. 51992Survey held at Knottingley and GooleDate First Survey 18th March 1942Last Survey 14th April

1943

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

Single screw self-trimming boiler "EMPIRE REAPER". Machinery fitted aft

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

Full ScantlingState Type of Erections POOP & FORECASTLETONNAGE under Tonnage Deck ... 243.32Do. of space or spaces between Tonnage Dk. and Upper Dk. ✓Total 243.32Gross Tonnage 332.14Register Tonnage 158.18

REGISTERED DIMENSIONS.

FEET

Length 141.7Breadth 21.79.6CLASS 100 A.1.
"COASTING SERVICE GREAT BRITAIN & IRELAND"State if with freeboard as condition of Class No.Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 140.0Breadth (greatest moulded) B 21'-6"Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 10'-6"1st Longitudinal Number (L x D) 14702nd Numeral L x (B + D) 4480Framing Depth "d," at middle of length. See Sec. 3 (1d) 9.38Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.3Do. Long Bridge to top of keel ✓Draught Moulded 9'-3 3/4"Built at KnottingleyLaunched 17th October 1942. Yard No. 146Builders John Harker Ltd.Owners Ministry of War TransportManagers John Harker Ltd.

(Where necessary to be entered in Reg. Book)

Residence Knottingley, YorksPort of Registry Hull

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.....	20 ✓		Bracket Floors, Frame		
" " from 1/2 length amidships to Collision bulkhead.....	20 ✓		" " Reversed Frame.....		
" " in peaks { FORE PEAK	18 ✓		" " Vertical Struts		
" " { AFTER PEAK	17 ✓		Centre Girder, depth and thickness amidships		
IDE FRAMING.			" " top Angles		
Frame Amidships, Angle, <u>E or F</u>	4 3 30 ✓		" " bottom Angles.....		
" " Extends up to.....	UPPER DECK ✓		Side Girders, No. each side and thickness.....		
Reversed Frame Amidships, Angle <u>2 1/2 2 1/2 28</u>	✓		Margin Plate depth (excl. of flange) and thickness		
" " Extends up to.....	ACROSS FLOORS ✓		" " Vertical Angle to Tank side		
Depth of Framing Girder.....	4		Bracket abaft 1/4 len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, <u>C</u> or <u>F</u>			" " Vertical Angle to Tank side		
" " Second 'tween Decks, Angle, <u>C</u> or <u>F</u>			Bracket from forward 1/4 len. from stem to Panting Area		
" " Third " " " "			Gussets, spacing and scantling abaft 1/4 len. from stem.....		
" " from 1/2 len. for'd. to 15% len. from Stem			Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area		
" " in Peaks, Angle <u>E or F</u>	4 3 30 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8 - 4 3/8 ✓		INNER BOTTOM PLATING.		
State if Frame Joggled.....	No.		Breadth and thickness of Middle Line Strake.....		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	AS APPROVED		Thickness of remainder in Holds		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?			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?.....		
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds.....	14 x 28 ✓		Uppermost Continuous Deck, amidships in Wells, Angle, <u>E or F</u>	4 3 32 ✓	
Height of Brackets at side above base line at toe of frame.....	✓		" " in way of Bridge, Angle, <u>C</u> or <u>F</u>	✓	
Middle Line Keelson, on Floors, Angles, <u>E or F</u> DOUBLE	3 3 36 ✓		Spacing	20"	
" " Through Plate or Intercoastal Plate	31 ✓		Second Deck, amidships, Angle, <u>C</u> or <u>F</u>		
" " Foundation Plate on Floors	✓		Spacing		
" " Flat Plate Keel Angles	3 1/2 3 1/2 33 ✓		Third Deck, amidships, Angle, <u>C</u> or <u>F</u>		
Keelsons, No. each side.....	ONE		Spacing.....		
" thickness of Intercoastal Plate...	28 ✓		Fourth Deck, amidships, Angle, <u>C</u> or <u>F</u>		
" Angle	5 3 30 ✓		Spacing.....		
DOUBLE BOTTOM.			Poop Deck, Angle, <u>E or F</u>	4 3 32 ✓	
Mid Floors, thickness and spacing			Spacing.....	17" to 19" ✓	
" " Are Frame and Reversed Frame joggled?			Bridge Deck, Angle, <u>C</u> or <u>F</u>	✓	
Bracket Floors, breadth and thickness at middle line			Spacing.....	✓	
" " breadth and thickness at margin plate			Forecastle Deck, Angle, <u>E or F</u>	4 3 32 ✓	
			Spacing.....	18"	

(MADE IN ENGLAND.)

014738-014750-0019

PILLARS AND DECKS.

[illegible]

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled? yes. ✓	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.....	37 ✓	42 ✓	38 ✓	38 ✓		SINGLE ✓	3/4 ✓	6R. ✓	3-2 ✓	3/4 ✓	2 5/8 ✓	STRAPPED ✓	
„ Dble. (if any) ✓						✓							
Bottom Plating, No. of Strakes ... 2.....	42 ✓	30 ✓	26 ✓	26 ✓		SINGLE ✓	5/8 ✓	7R. ✓	2 ✓	5/8 ✓	2 1/4 ✓	LAPPED ✓	
Bilge Plating, No. of Strakes ... 1.....	42 ✓	30 ✓	26 ✓	26 ✓		„ ✓	„ ✓	„ ✓	„ ✓	„ ✓	„ ✓	STRAPPED ✓	
Side Plating, No. of Strakes ... 1.....	46 1/2 ✓	30 ✓	26 ✓	26 ✓		„ ✓	„ ✓	„ ✓	„ ✓	„ ✓	„ ✓	STRAPPED ✓	
Upper Deck, Sheer- strake in Wells.....	✓	✓				✓	✓	✓	✓			✓	
Upper Deck, Sheer- strake in Bridge ...	✓	✓				✓	✓	✓	✓			✓	
Strake below Sheer- strake in Wells.....	42 1/2 ✓	44 ✓	28 ✓	28 ✓		DOUBLE FOR 1/2 L. ✓	3/4 ✓	7R. ✓	3-2 ✓	3/4 ✓	2 5/8 ✓	STRAPPED ✓	
Strake below Sheer- strake in Wells.....	✓	✓				DOUBLE SINGLE ✓	5/8 ✓	7R. ✓	2 ✓	5/8 ✓	2 1/4 ✓	LAPPED ✓	
Strake below Sheer- strake in Bridge ...	✓	✓				✓							
Poop Side Plating.....	39 ✓	24 ✓				SINGLE ✓	5/8 ✓	7R. ✓	2 ✓	5/8 ✓	2 1/4 ✓	STRAPPED ✓	
Bridge Side Plating.....	42 1/2 ✓	24 ✓				„ ✓	„ ✓	„ ✓	2 ✓	„ ✓	„ ✓	LAPPED ✓	
Forecastle Side Plating	✓	✓				✓							
	38 ✓	24 ✓				SINGLE ✓	5/8 ✓	7R. ✓	2 ✓	5/8 ✓	2 1/4 ✓	STRAPPED ✓	
	37 ✓	24 ✓				„ ✓	„ ✓	„ ✓	2 ✓	5/8 ✓	2 1/4 ✓	LAPPED ✓	

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c)..... 3 ✓

„ Deck next below..... ✓

As per Rule..... 3 ✓

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		FLAT	PLATE KEEL.	
STEM			6" x 1 1/2" APPLIED- FRODINGHAM STEEL CO. LD.	5 3/4" x 1 1/8" ✓
STERN FRAME { Propeller Post		5 1/2 x 2 3/4	WELDED CONSTRUCTION BY J. HARVEY LTD.	
{ Rudder		5 1/2 x 2 3/4	ANNEALED BY T. FIRTH & J. BROWN LTD.	
Speed of Vessel		8 KNOTS		
RUDDER—Type		SEMI-BALANCED	DOUBLE PLATE TYPE.	
" A x D.				
" Diam. of head		4" ✓		
" Mainpiece at top pintle		4" ✓		
" " " heel		4" ✓		
" how constructed		FORGED & BUILT.		✓
" double or single plate		DOUBLE.		✓
" coupling, vertical or				
" horizontal		NONE.		✓

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) OPEN HEARTH PROCESS. ✓

PLATES:- DORMAN, LONG & CO-LD.

SECTIONS:- DORMAN, LONG & CO-LD.

Has the Steel been tested as required by the Rules? Yes. ✓

The equipment is as per letter 'd'

EQUIPMENT No.												LETTER		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.					
55914	1st Bower	7	3	0	Stockless			9	18	0	14	✓	7 1/4 ✓	Hall's type (Cast steel head)	Not stated	C. Heath 11-3-43. W.V. Holman
55913	2nd "	7	0	21	✓	"		9	9	1	14	✓	7 1/4 ✓	" " "	" "	C. Heath " " "
	3rd "															
	Collective weight	14	3	21	✓								11 1/2 ✓			
55915	Stream	2	1	4	✓	2	10	4	15	0	0	✓	2 1/4 ex stock	Ordinary forged W.I. anchor.	Not stated	C. Heath 11-3-43. W.V. Holman

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.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
66725	165	7/8	13 3/4	20 7/8	70	0	0		165	7/8	Stud B. Hingley	Bradley, Heath	20 75	2 1/4	1 1/2	75	2 1/4
									hulk	Sons.	16-3-43 W.V. Holman	HAWSERS & WARPS	90	4	HEMP.	90	4
													20 25	3	MANILA		
Iron Stream Chain or Steel Wire	45	2 1/4	S.W.R. 14	X					45	2 1/4			10 75	2	"		

Steering Gear, Type (Power or hand) Hand. Fisher's Ltd. Alternative Means of Steering Killer with blocks & tackle

Steering Chains (Size and Test) 5/8" dia. - 4 1/8 TONS. Windlass Mot. driven - Fisher's Ltd. Boats 2 LIFEBOATS 16'0" x 5'9" x 2'4"

Ceiling in Holds, thickness and material 9" x 3" white pine Cargo Battens, thickness, material and spacing None.

Cargo Hatchways.—(Upper Deck) Steel plates and angles. Thickness of Hatches 2 1/2"

Size of Hatchways No. 1 (Fwd.) 80'0" x 13'0" to 140' No. 2 ✓ No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

Number of Shifting Beams and/or Fore and Afters None. For JOHN HARKER LIMITED.

Builder's Signature

E. K. Thurkettle

SHIPYARD 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 Motorship.

(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, the specification, and in general conformity with the Rules for the class contemplated.

The materials & workmanship are good.

Fore & after peak tanks, & main fuel tank tested to rule requirements and found in order.

The flash point of the oil fuel above 150°F & remaining requirements of Section 20 of the Rules 1939-40 complied with so far as they are applicable. Main fuel tank at after end Motorroom.

Decks, casing, W.T. bulkheads & shell plating tested & found in order.

Bottom of vessel flooded & found in order.

Windlass steering gear tried under working conditions and found in order.

A foreboard has been assigned, the marks cut in on the vessels sides & verified.

Stiffening of poop front bulkhead is equivalent to that indicated in the Secretary's letter to the Builders of 10.8.42. See letter 29.5.43.

The amount of Entry Fee..... £ 3 : 0 : 0
FREEBOARD FEE £ 6 : 0 : 0
Special Survey Fee..... £ 33 : 4 : 0
SUPERVISION OF SPECIFICATION 8-6-0
Travelling Expenses, if any £ 14 : 7 : 11

Fees applied for,

£ MAY 1943

Received by me,

19.

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

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

COASTING SERVICE GREAT BRITAIN & IRELAND.

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

Signature

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

Certificate to be sent to Hull.

Date of issue 24/5/43

Committee's Minute

FRI. 21 MAY 1943

Character assigned

+100 A1

Coasting Service Great Britain & Ireland

Cargo battens not fitted

Lloyd's A & C.R.

+100 A1

Q.E. Eng. Co.

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 are being retained for reference in dealing with a sister vessel under construction

The following reports are enclosed herewith:—

Stemframe (heat treatment of)
3 Rudder arms, 2 tillers, 1 coupling
Solepiece + bars of stemframe

Shp. Rpt No. 37434
Sld. " " 9060
" " " 8786.

PARTICULARS OF ELECTRIC WELDING (if employed)

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

+100 A-1.

COASTING SERVICE GREAT BRITAIN & IRELAND.

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

1st Bower

H-2-26 inch pins.

A.E.G.

7360

8.10.42

2nd "

H-1-10 " "

A.E.G.

7307

28.9.42.

3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 34.75 ft., R.Q.D. ft., Bridge ft., Forecastle 17.5 ft.

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

Official No. 167140.

Signal Letters

Extreme Breadth over Belting 21.7' (Circ. 1611)

Over-all Length 148.04' (Circ. 1703)

No. and Material of Decks 1 DK (STL)

Parts of Bottom of Vessel coated with ~~cement~~ approved composition. 2 COATS BLACK VARNISH.

Particulars of composition (if fitted) and of approval Approved by Ministry of War Transport.

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,			Fore peak tank,	15	56 3/4
Double bottom, under Engines and Boilers,			After peak tank,	7'6"	23.
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch.)		

Order for Special Survey No. 3333

Date 13th Aug. 1942.

Dates of Surveys held while building

1942:—Mar. 18. June 11. 23. 29. July 2. 10. 17. 24. 31. Aug. 6. 17. 28. Sept. 9. 25. Oct. 2. 6. 9. 15.
Oct. 17. 23. 30. Nov. 6. 27. Dec. 8. 21. 1943:—Jan. 5. 15. 25. Feb. 2. 10. 22. 23.
Mar. 5. 9. 15. 19. 22. 24. April 5. 14.

Total No. of Visits 40

Lloyd's Register
Foundation