

6 JAN 1947

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STEEL STEAMER OR MOTORSHIP.

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 December 1943 Port of Sunderland No. 33861

Survey held at Sunderland Date First Survey 16 October 1942 Last Survey 30th December 1943

On the (State if Machinery fitted Aft and
Single, Twin or Triple Screw) Single screw "EMPIRE TRAIL" Machinery amidships

State Type (Full Scantling, Complete Superstructure with or without Tonnage Quennins) *Intermediate between 45 & C.S.S.* State Type of Erections *Fixed on upper deck*

TONNAGE under } 6603.29
Tonnage Deck ... }

CLASS * 100 A.1. State if with freeboard } yes
as condition of Class }

Built at.....*Sunderland*.....

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

Length from fore part of stem to after part of stern } L 423.87
post on summer L.W.L. See Sec. 3 (1a)

Launched 19th August 1943 Yard No. 1

Category	Value
1. Total	100.00

Breadth (greatest moulded) B 56.0
 Depth, at middle of length from top of keel to top
 of beam at side of uppermost continuous
 deck. See Sec. 3 (1c) } D 37.67

Builders *Shipbuilding Corporation Ltd. (Wear Branch)*
Sunderland

Gross Tonnage 4082.68

1st Longitudinal Number (L \times D).....= 15153

Owners Ministry of War Transport

Register Tonnage 4895.21

2nd Numeral $L \times (B + D)$ = 38890

Managers *Crest Shipping Company Limited*
(Where necessary to be entered in Reg. Book)

REGISTERED DIMENSIONS.

FEET

Length 429.8

Framing Depth "d," at middle of length. See } 23.3
Sec. 3 (1d).....

Residence *Stone House London E.C.2*

Breadth 56.3

Proportions—Depth to Length—Uppermost continuous deck to top of keel } 11-25

Port of Registry *Sunderland*

Depth 35.2

Do. Long Bridge to }
top of keel }

If surveyed while building, afloat, or in dry dock

Draught Moulded 26-75/8

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.
FRAMES, Spacing amidships.....	31 ✓		Bracket Floors, Frame	✓	
" " from $\frac{2}{3}$ length amidships to Collision bulkhead.....}	27 ✓		" " Reversed Frame.....	✓	
" " in peaks	24 ✓		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 $\frac{3}{4}$ x .54 ✓	
Frame Amidships, Angle, [or]	12 x 3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 32.9/165L ✓ TO UPPER DK ON		" " top Angles	3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x .48 ✓	
" " Extends up to	ALTERNATES B.H.E. BEAMS ✓		" " bottom Angles.....	4 x 4 x .54 ✓	
1/4" NO 6 HOLD & DEEP TANK AT NO 6	10 x 3 $\frac{1}{2}$ x .48L ✓		Side Girders, No. each side and thickness. ONE.	6 x 3 $\frac{1}{2}$ x .44L (TO SHELL) ✓ 6 x 3 x .40 L (TO T.T.) ✓	
Reversed Frame Amidships, Angle	TO UPPER DK ON		Margin Plate depth (excl. of flange) and thickness	36 x .54 ✓	
" " Extends up to	ALTERN'S B.H.E. BEAMS ✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	6 x 6 x .44 ✓	
Depth of Framing Girder.....	✓		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	BRACKET WELDED TO TANK TOP ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	6 x 3 $\frac{1}{2}$ x 7/16L ✓ FORD OF 3/5L ✓		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	14 $\frac{1}{2}$ x .42 " CONTINUOUS ✓	
" " Second 'tween Decks, Angle, [or]	✓		" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	AT PANTING AREA 17 x .42 CONT'US ✓ 14 $\frac{1}{2}$ x .42 CONTINUOUS ✓	
" " Third	✓		Tank Side Brackets, height above base line at toe of Frame and thickness	95 x .44 ✓	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem AT PANTING AREA	12 x 3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 32.9/165L ✓ 15 x 4 x 4 x 3/32L ✓		INNER BOTTOM PLATING.		
" " in Peaks, Angle or [.....	8 x 3 $\frac{1}{2}$ x .35L TO UPPER ✓ OK. FOCSE ON ALTERN'S ✓		Breadth and thickness of Middle Line Strake...	7 $\frac{1}{4}$ x .52 ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/16 @ 6 $\frac{5}{16}$ 3 5/32 ✓		Thickness of remainder in Holds44 .52 1/4" NO 6 HATCHES ✓	
State if Frame Joggled.....	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 the Panting Area in accordance with the Rules and/or as approved?	yes		BEAMS.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	yes		Uppermost Continuous Deck, amidships in Wells, Angle, E or [or]	8 x 3 $\frac{1}{2}$ x .46 L ✓	
INGLE BOTTOM.			" " in way of Bridge, Angle, [or]	✓	
Floors, Depth and thickness at mid-line in Holds.....	✓		" " Spacing	EVERY FRAME ✓	
Height of Brackets at side above base line at toe of frame.....	✓		Second Deck, amidships, Angle, E or [or]	9 x 3 $\frac{1}{2}$ x .39 L ✓	
Middle Line Keelson, on Floors, Angles, [or]	✓		" " Spacing	EVERY FRAME ✓	
" " Through Plate or Inter-costal Plate	✓		Third Deck, amidships, Angle, [or]	✓	
" " Foundation Plate on Floors	✓		" " Spacing.....	✓	
" " Flat Plate Keel Angles	✓		Fourth Deck, amidships, Angle, [or]	✓	
Side Keelsons, No. each side.....	✓		" " Spacing.....	✓	
" " thickness of Intercostal Plate...	✓		Poop Deck, Angle, [or]	✓	
" " Angles	✓		" " Spacing.....	✓	
DOUBLE BOTTOM.			Bridge Deck, Angle, [or]	✓	
Solid Floors, thickness and spacing42 EVERY FRAME ✓		" " Spacing.....	✓	
" " Are Frame and Reversed Frame joggled?	CUT AT JOSSLE ✓		Forecastle Deck, Angle, [or]	9 x 3 $\frac{1}{2}$ x .42L TO 6 x 3 x .42L ✓	
Bracket Floors, breadth and thickness at middle line	✓		" " Spacing.....	EVERY FRAME ✓	
" " breadth and thickness at margin plate.....	✓				

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		ONE		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		36	✓
„ „ „ „ „		✓		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.	TWEEN DECK	5x3x.32 2A & 7x3x3/8 C @ 2 FR SPACES	✓	Third Deck.			
Stiffeners and Spacing	HOLD	12x3 1/2 x 3 1/2 x 30.9 105 C	✓	Stringer Plate, breadth and thickness.....		✓	
	TWEEN DECKS	2 FR SPACES	✓	If Plated, state thickness		✓	
Plating, thickness of	HOLD	.26	✓	Fourth Deck.			
		.30	✓	Stringer Plate, breadth and thickness.....		✓	
STRINGERS AND DECKS.				If Plated, state thickness		✓	
Uppermost Continuous Deck.				Poop Deck.			
Stringer Plate, breadth and thickness in Wells		65 5/8 x .65	✓	Stringer Plate, breadth and thickness.....		✓	
„ „ „ „ in way of Bridge		✓		If Plated, state thickness.....		✓	
„ Angle in Wells		6 x 6 x .60	✓	Bridge Deck.			
Thickness of Plating abreast Deck openings in way of Wells60 x .55	✓	Stringer Plate, breadth and thickness.....		✓	
Thickness of Plating abreast Deck openings in way of Bridge.....		✓		Plating, Sheathing, material and thickness ...		✓	
Thickness of Plating within line of openings...		.40	✓	Forecastle Deck.			
If Sheathed, material and thickness.....		✓		Stringer Plate, breadth and thickness.....		33	WELDED TRANSV ✓
Second Deck.				Plating, Sheathing, material and thickness...		50	UNDER W' LASS ✓
Stringer Plate, breadth and thickness in Wells		82 3/4 x .38	✓				

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled? <u>NO</u>	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.....	54	.80	.70	.70		DOUBLE	7/8	3 1/4	3R	7/8	4	DOUBLE STRAPS ALTERN ^{TS} WELDED.	
„ Dblg. (if any) <u>B</u>	✓												
Bottom Plating, No. of Strakes <u>A.C.D.</u>		.60	.70	.52		DOUBLE RIVETED AMIDSHIPS WELDED AT ENDS	7/8	3 1/4	4R AMIDSHIPS WELDED AT ENDS	7/8	3 1/2	D ^W INSIDE STRAPS A.B.C. LAPPED AMIDSHIPS	
Bilge Plating, No. of Strakes <u>E</u>		.64	.56	.50		do	7/8	3 1/4	do	7/8	3 1/2	INSIDE STRAPS.	
Side Plating, No. of Strakes <u>F.G</u>		.60	.56	.48		do	7/8	3 1/4	3R AMIDSHIPS WELDED AT ENDS	7/8	3 5/32	LAPPED AMIDSHIPS	
Upper Deck, Sheer- strake in <u>Wells</u>	77 1/2	.73	.46	.50		do	7/8	3 1/4	4R AMIDSHIPS WELDED AT ENDS	1	4	do	
Upper Deck, Sheer- strake in Bridge ...	✓												
Strake below Sheer- strake in <u>Wells</u>	83 1/4	.65	.46	.46		do	7/8	3 1/4	3R AMIDSHIPS WELDED AT ENDS	7/8	3 5/32	do	
Strake below Sheer- strake in Bridge ...	✓												
Poop Side Plating.....	✓												
Bridge Side Plating.....	✓												
Forecastle Side Plating			.42			WELDED			WELDED				

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	For record:— 7 BH (Call to W dk, to 2nd dk 6 divisional W.T. BHs in 'ween dks)
Extending to Upper Deck (Sec. 3 c).....	7 ✓
„ Deck next below.....	7
As per Rule.....	7

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	✓			
STEM		10x2 1/2 ✓		
STERN FRAME {				
Propeller Post	CAST STEEL	WOLSHAM	ST COLD	
Rudder "	AS PER APPROVED PLAN			
Speed of Vessel	11 KNOTS ✓			
RUDDER—Type	BALANCED ✓			
" A x D	✓			
" Diam. of head	9 1/4" ✓	see plan		
" Mainpiece at top pintle	12" ✓			
" " heel	9 1/4" ✓			
" how constructed	FORGED STEEL ✓			
" double or single plate	DOUBLE ✓			
" coupling, vertical or	HORIZONTAL ✓			
" horizontal				

			Plating Thickness.	STIFFENERS.			
				VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	BULKH'D,	Upper 'tween decks	✓ 26	✓ 5x3x42.0A	✓ 30	✓	✓
"	"	Second	✓				
"	"	Third	✓				
"	"	Holds ... N ^o 87	✓ 45-26	✓ 12x3½x3½x32-9 1/5 L	✓ 30	✓	✓
COLLISION	"	(in Hold) N ^o 16	✓ 52-30	✓ 10x388.P WELDED	✓ 24	✓ F.P.T.T. 82	✓ S.B. BEAMS
AFTER PEAK	"	" N ^o 9	✓ 46-30	✓ 7x3½x¾ W.TOE ON	✓ 24	✓ 82 S.B. BEAMS	✓ 2-7x3½x¾ W.TOE ON

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <i>Open Hearth</i>
	<i>Nixon Cargo Fleet, Bowsett, Dorman Long, Appleby Frodingham South Durham, & Skinningrove</i>
	Has the Steel been tested as required by the Rules? <i>yes.</i>

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 following pre-fabricated parts have been embodied in the vessel:-
Centre girder, keel, floors, tank margin plate, bilge brackets, continuous gussets, shell plating, tank top plating, deck plating, side frames, deck beams, built angle intercostals, intercostals under engine and boilers, stringer angles, water tanks, derrick posts, masts, engine room and galley skylights

The requirements of Circular M.S. 942/42 have not been carried out in this vessel pre-fabricated materials having been used

PARTICULARS OF ELECTRIC WELDING (if employed)

Alternate butts of keel welded, butts and seams of fore and after end shell (clear of pre-fabrication) welded, W.I. bulkhead stiffener brackets and tank side gusset plates welded to tank top. Second deck stringer chocks welded to shell and deck, tank top plating at fore and after ends welded to shell, tank side brackets, and floors in way of same at fore and after ends welded to tank top. Seams and butts of deep tank bulkheads welded, butts and seams of upper and second decks at fore and after ends and forecastle deck welded, small hatches and ventilator coaming welded to deck

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

SIX DIVISIONAL W.T. BULKHEADS IN 'TWEEN DECKS

D.F.

FORE & AFTER ENDS OF SHELL WELDED

E. S. D. see Rpt on Elec. Equip.

Shell & deck plating at fore & after ends elec. welded

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

1st Bower	45-2-0	A.E.G.	4944	20-4-43
2nd "	45-0-14	A.E.G.	4954	30-4-43
3rd "	16-1-14	A.E.G.	4746	15-1-43

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 39.5 ft.

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

Official No. 180050 Signal Letters ☒ Extreme Breadth over Belting ☒ Over-all Length 450'-0" ☒

No. and Material of Decks 2 Decks (steel)

Parts of Bottom of Vessel coated with cement or approved composition Cement in double bottom tanks, peak tanks and bilges

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	62.0	230	Fore peak tank,	22.0	159 <input checked="" type="checkbox"/>
Double bottom, under Engines and Boilers,	46.5	220	After peak tank,	18.0	93 <input checked="" type="checkbox"/>
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, aft,	43.91 <input checked="" type="checkbox"/>	382 <input checked="" type="checkbox"/>
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, forward,	14.0 <input checked="" type="checkbox"/>	257 <input checked="" type="checkbox"/>
Double bottom, forward,	209.75	849	Other tanks, if fitted, AT ENGINE ROOM SIDES	23.25 <input checked="" type="checkbox"/>	373 <input checked="" type="checkbox"/>
Total length (if continuous) and Capacity	318.25	1299 <input checked="" type="checkbox"/>	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 6060

Date 23.9.42

Dates of Surveys held while building

1942 Oct 16, 22, 29 Nov 2, 9, 12, 20, 27 Dec 4, 7, 9, 16, 29 1943 Jan 11, 27 Feb 10, 17, 24, 26
Mar 5, 8, 12, 16, 23, 25, 30 Apr 1, 5, 12, 15, 27 May 1, 6, 11, 18, 20, 24, 27, 31 June 3, 7, 8, 9, 15, 21, 24, 25
28, 30 July 4, 6, 8, 9, 10, 13, 16, 20, 21, 23, 27, 30 Aug 5, 6, 9, 13, 16, 17, 18, 19, 22, 25, 27, 31 Sep 7, 8
10, 16, 24, 27, 29, 30 Oct 4, 6, 7, 8, 15, 18, 19, 20, 21, 22, 26, 27, 28, 29 Nov 1, 2, 4, 5, 8, 10, 11, 12, 15, 17, 19
22, 23, 24, 25, 30 Dec 2, 3, 6, 7, 8, 10, 12, 14, 15, 16, 17, 18, 20, 22, 23, 24, 28, 29, 30
Total No. of Visits 130