

STEEL STEAMER or MOTORSHIP.

Received at London Office SEP 2 1940

State if Report has been sent on the Freeboard of the Vessel YesState if Report is sent on the Machinery of the Vessel Yes

Date of completion of report 26th August 1940 Port of Middlesbrough No. 16892
 Survey held at Middlesbrough Date First Survey 19th June 1940 Last Survey 15th August 1940

On the (State if Machinery fitted with or without Tonnage Openings) SINGLE SCREW STEAMER "EMPIRE ENDURANCE" EX "ALSTER"State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) FULL SCANTLINGState Type of Erections POOP AND COMBINED BRIDGE AND FORECASTLETONNAGE under Tonnage Deck 7768.41CLASS 100A1
(CONTINGENT)

State if with freeboard as condition of Class

NO.

Built at HAMBURG

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

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a) L 503' 7 1/2"Launched 1928Yard No. 211Breadth (greatest moulded) B 63' 5 3/4"Builders DEUTSCHE SCHIFF-MACHF. WERK VULCANDepth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 33' 8"Owners THE MINISTRY OF SHIPPING1st Longitudinal Number (L x D) = 16956Managers THE BOOTH STEAMSHIP CO. LTD
(Where necessary to be entered in Reg. Book.)2nd Numeral L x (B + D) = 48925Residence CUNARD BUILDING, LIVERPOOL, 3.Framing Depth "d," at middle of length. See Sec. 3 (1d) 14.95Port of Registry MIDDLESBROUGHProportions—Depth to Length—Uppermost continuous deck to top of keel 12.34

If surveyed while building, afloat, or in dry dock

Do. Long Bridge to top of keel 28' 1 1/4"AFLOAT AND IN DRY DOCK

Draught Moulded

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.
ES, Spacing amidships	33 ✓		Bracket Floors, Frame	8 1/2 3 1/4 .43 ✓	
" from 1/2 length amidships to Collision bulkhead	27 ✓		" " Reversed Frame	8 8 .43 ✓	
" in peaks	24 ✓		" " Vertical Struts	PLATE 20 1/2 x .45 ✓	
FRAMING.			Centre Girder, depth and thickness amidships	47 1/2 x .59 ✓	
Amidships, Angle, E or [11 3 1/2 .59 ✓		" " top Angles	34 3 1/2 .57 ✓	
" Extends up to	2ND DK. ✓		" " bottom Angles	5 5 .67 ✓	On plan 4 1/2 x 4 3/4 x .59
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	2 @ .45 ✓	
" Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	41 x .59 ✓	
of Framing Girder	11 ✓		" " Vertical Angle to Tank side	5 1/2 5 1/2 .45 ✓	
Decks in Uppermost Continuous 'tween	8 1/2 3 1/4 .41 AND AS APPROVED ✓		" " Bracket abaft 1/2 len. from stem	5 1/2 5 1/2 .45 ✓	
Decks, Angle, E or [8 1/2 3 1/4 .41 ✓	DITTO	" " Vertical Angle to Tank side	5 1/2 5 1/2 .45 ✓	
" Second 'tween Decks, Angle, E or [✓		" " Bracket from forward 1/2 len. from stem to Panting Area	CONTINUOUS .45 ✓	
" Third " " "	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	CONTINUOUS .45 ✓	
from 1/2 len. for'd. to 15% len. from Stem	12 3 3/4 .59 ✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	CONTINUOUS .45 ✓	
in Peaks, Angle or [8 1/2 3 1/4 .41 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	6-2" x .45 ✓	
meter and Spacing of Rivets through Frame and Shell Plating amidships	9 1/2 3 1/2 .49 ✓	3 on plan	INNER BOTTOM PLATING.		
Frame Joggled	NO ✓		Breadth and thickness of Middle Line Strake	58 x .57 ✓	
the scantlings and arrangements in the Panting Area in accordance with the Rules for as approved?	AS APPROVED ✓		Thickness of remainder in Holds	.49 ✓	
the scantlings and arrangements in way of the Bottom Forward in accordance with Rules and/or as approved?	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?	YES ✓	AS APPROVED
DOUBLE BOTTOM.			BEAMS.		
Depth and thickness at mid-line in Holds	✓		Uppermost Continuous Deck, amidships	8 1/2 3 .41 ✓	8 x 3 x .41 on plan
Height of Brackets at side above base line at toe of frame	✓		" " in Wells, Angle, E or [9 1/2 3 1/2 .47 ✓	AND AS APPROVED
Line Keelson, on Floors, Angles, E or [✓		" " in way of Bridge, Angle, E or [✓	
" Through Plate or Intercostal Plate	✓		Spacing	EVERY FR. 33" ✓	
" Foundation Plate on Floors	✓		Second Deck, amidships, Angle, E or [10 1/2 3 1/2 .49 ✓	DO.
" Flat Plate Keel Angles	✓		Spacing	EVERY FR. 33" ✓	
Keelsons, No. each side	✓		Third Deck, amidships, Angle, E or [✓	
" thickness of Intercostal Plate	✓		Spacing	✓	
" Angles	✓		Fourth Deck, amidships, Angle, E or [✓	
DOUBLE BOTTOM.			Spacing	✓	
Solid Floors, thickness and spacing	45 @ 66" ✓		Bridge Deck, Angle, E or [9 1/2 3 1/2 .43 ✓	
" Are Frame and Reversed Frame joggled?	NO ✓		Spacing	EVERY FR. 33" ✓	
Bracket Floors, breadth and thickness at middle line	3-3" x .45 ✓		UPPER		
" breadth and thickness at margin plate	3-4" x .45 ✓		Forecastle Deck, Angle, E or [9 1/2 3 1/2 .47 ✓	
			Spacing	EVERY FR. 24" ✓	

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.....	TWO	✓			
" " in 'tween Decks, Size and Spacing.....		WIDE SPACED AS APPROVED ✓			
" " " " " "		✓			
" " in Holds " "		✓			
" " " " " "		✓			
Centre Line Bulkhead.		✓			
Stiffeners and Spacing.....	10 3/8 x 5 1/2 @ 66"	✓			
Plating, thickness of33 ✓				
STRINGERS AND DECKS.					
Uppermost Continuous Deck.					
Stringer Plate, breadth and thickness in Wells	✓				
" " " " in way of Bridge	70" x .78 ✓	See plan 59 x .73			
" Angle in Wells	6 1/2 5 1/2 59	See plan 32 x 32 x .4"			
Thickness of Plating abreast Deck openings in way of Wells	✓				
Thickness of Plating abreast Deck openings in way of Bridge	59 .43 x .33				
Thickness of Plating within line of openings...	.33 ✓				
If Sheathed, material and thickness	-				
Second Deck.					
Stringer Plate, breadth and thickness in Wells...	✓				
Stringer Plate, breadth and thickness in way of Bridge	59" x .38 ✓				
Thickness of Plating abreast Deck openings in way of Wells	-				
Thickness of Plating abreast Deck openings in way of Bridge35 ✓				
Thickness of Plating within line of openings...	.31 ✓				
If Sheathed, material and thickness	-				
Third Deck.					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness.....					
Fourth Deck.					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness.....					
Poop Deck.					
Stringer Plate, breadth and thickness	41' x .34 ✓				
Plating, Sheathing, material and thickness29 x 3" Wood				
Bridge Deck.					
Stringer Plate, breadth and thickness.....	75" x .34 ✓	69 3/8 x .34			
Plating, Sheathing, material and thickness67 x 3" Wood ✓				
Forecastle Deck.					
Stringer Plate, breadth and thickness.....	41' x .34 ✓				
Plating, Sheathing, material and thickness47 x .35 ✓				

EQUIPMENT No. 1										LETTER ft 1		ANCHORS. 28 18				
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE			WEIGHT REQUIRED BY TABLE 53		Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Owts.	qrs.	lbs.	Owts.	qrs.	lbs.	Tons.	owts.	qrs.	lbs.	Owts.				
1st Bower	...	38	1	14									STOCK LESS	}	NO PARTICULARS AVAILABLE.	
2nd "	...	86	2	12									DO.			
3rd "	...	MISSING.														
Collective weight.												257 1/2				
Stream	39	1	13								33 1/8	STOCKLESS			

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.	
	Length. Diam.	Stairs. Breaking.	Supplied.	Per Ryle.	Tons.	qrs.	lbs.	Owts.	Length. Diam.			Length. Cir.	Tons.	Length. Cir.	
	Fathoms. Inks.	Tons. Qwts.	Owts. qrs. lbs.	Owts.	Fathoms.	Inks.			Fathoms. Inks.			Fathoms.	Inks.	Fathoms. Inks.	
	270 2 1/8				350 2 1/8	LINK.			STUD LINK.	NO PARTICULARS AVAILABLE	TOWLINS.	150 5 1/2		130 5 1/2	
											HAWSERS & WARPS.	26100 3"	18-6	32100 2 1/2"	
											"	22400 8"	MANILA	32100 3"	
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	Fathoms. Inks.	Tons. Qwts.	Ow											

Steering Gear, Type (Power or hand) STEAM - Rod and Chain. Alternative Means of Steering Blocks and Tackles

Steering Chains (Size and Test) 1 1/2" DIAM. 30 TONS Windlass STEAM Boats 20 24" x 9.52 x 3.15 for 56 persons
20 25" x 7.95 x 3.15 for 26 do.

Ceiling in Holds, thickness and material UNDER HATCHWAYS 3" WOOD Cargo Battens, thickness, material and spacing 8" x 2" WOOD 7" APART
INWAY OF BULKHEADS 3" WOOD

Cargo Hatchways. (Upper Deck) STEEL COAMINGS Thickness of Hatches 3" WOOD

Size of Hatchways No. 1 (Fwd) 20'-6 1/2" x 15'-9" No. 2 15'-0 1/2" x 14'-9" No. 3 14'-0 1/2" x 14'-9" No. 4 13'-0 1/2" x 14'-9" No. 5 11'-9 1/8" x 13'-1" No. 6 10'-3 3/4" x 14'-5 1/2"
No. 7 14'-4 1/8" x 14'-8 1/4" No. 8 13'-4 1/2" x 14'-9"

Number of Shifting Beams Nº 1 - 3. Nº 2 - 4. Nº 3 - 4. Nº 4 - 5. Nº 5 SWAYT CARRAN - 6 - 8 Nº 7 - 4. Nº 8 - 3
and for Fore and Afters

Builder's Signature _____

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 **VEGETABLE OIL** 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).

The vessel has been examined in dry dock and afloat.
The scantlings of the vessel have been verified, and found to be in accordance with the approved plans, except that the riveting in the steel amidships was found to be 1" dia. and not 7/8" dia. ^{shown on the} approved plans.
The plating of the decks immediately abaft the machinery in way of the six hatchways openings, was specially examined and found to be satisfactory.
The openings in the bulkhead at the after end of the bridge, were fitted with stiffened steel plates, fitted with brass bolts spaced about 17" apart, packed with rubber. Rose tests and found watertight. (see deck letter 6/1/40 & letter F. 17/4/40).
The equipment was examined and found to be in good condition. No certificates were available. The anchors, comprising 2 Bower and 1 stream, were dropped from a height of 10 ft. and found to be satisfactory. The chain cable was tested P.T.O.

See Section of 6/8/40
The amount of Entry Fee £ : : Fees applied for, (Special notations, where part of class, to be stated.)
Special Survey Fee.... £ 150 : :
Travelling Expenses, if any £ : :
State whether the Vessel has been built under Special Survey
Certificate to be sent to Date of issue
Committee's Minute
Character assigned
TUE. 10 SEP 1940
See other app.
Indb. 16891

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.)

is shown in our communication and enclosure of the 29th July, from the Provost House at Low Walker. It is recommended that the chain cable be renewed within 12 months. 2 additional ropes of 100 fms 2 1/2" wire have been supplied. The materials and workmanship were found to be good. All double bottom tanks, peak tanks and deep tanks, were examined internally, tested and found tight. The windlass, main and auxiliary steering gear were examined under working conditions and found satisfactory. The watertight doors were here tested and found tight. The foreboard assigned has been cut in, varnished and painted on the vessel's sides.

The vessel is constructed for the carriage of vegetable oil in the forward and after deep tanks.

NOTE.

1. Lower anchor of correct weight and test, has to be supplied, and the class 2 closing appliances at the after end of the bridge have to be replaced with class 1 closing appliances or the hatchway coamings on the foreboard deck (upper) have to be increased to 9", at the end of the present emergency period.

PARTICULARS OF ELECTRIC WELDING (if employed)

BUILT PILLARS, VENTILATOR COAMINGS AND MINOR FITTINGS.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book "CARRYING VEGETABLE OIL IN FWD AND AFTER DEEP TANKS"

E.S.D. D.F.

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

1st Bower DROPPED 10 AND FOUND SATISFACTORY.
2nd " DITTO.
3rd STREAM ANCHOR. DITTO.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 26.0 ft., R.Q.D. ✓ ft., Bridge AND Forecastle 469.3 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated. BRIDGE AND FORECASTLE COMBINED 36.9'.

Official No. 164841 Signal Letters G.M.T.J. Extreme Breadth over Belting ✓ Over-all Length 534.6 FT. (Circ. 1611) (Circ. 1708)

No. and Material of Decks 2 DECKS - STEEL

Parts of Bottom of Vessel coated with cement or approved composition BOTTOM OF VESSEL IN C.D.B. COVERED WITH BITUMINOUS COMPOSITION AND CEMENT. P.T.C.M. DT ASD.

Particulars of composition (if fitted) and of approval BITUMINOUS - NO OTHER PARTICULARS AVAILABLE

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,	157	517	Fore peak tank,		106.5
Double bottom, under Engines and Boilers,	80	441	After peak tank,		29.0
Double bottom, if under Engines only,	✓	✓	Deep tank, aft, FAS. 576.69	33 ✓	269
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward, FAS. 1636.192	43.3 ✓	754
Double bottom, forward,	216	934.5	Other tanks, if fitted,		
Total length (if continuous) and Capacity	453	1892.5	(If necessary, furnish further information by sketch.)		

Order for Special Survey No.

Date

Dates of Surveys held while building



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Total No. of Visits 37