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VERIFICATION REPORT

WED. FEB 27 1924 Index No.

30573

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.-STEAM SHIPS.

No. 28753

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey Sunderland
Date of Survey While building
Name of Surveyor W. T. Hudson

Messrs J. L. Thompson & Sons. S/N 549.

Ship's Name. "BRITISH DUCHESS"
Port of Registry and Nationality. London
BRITISH
Official Number. 147647
Gross Tonnage. 6060 (Amoy)
Date of Build. 1924
Particulars of Classification. +100 A-1. Carrying Petroleum in bulk
(contemplated)

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>405.0</u>	<u>54.85</u>	<u>32.9</u>	<u>5494.33</u>
Length on LOADLINE.	<u>404.25</u>	MEAN Frame Depth <u>9.62</u> Rule <u>2 x 2 1/2 = 4.25</u> No Spacing <u>+ .33</u>	Ceiling <u>+ .20</u> Sheer <u>+ .70</u>	Peak <u>1</u> Tanks <u>1</u> <u>+ for other 2.3</u> <u>+ 140 TONS</u>
Corrected DIMENSIONS.	<u>404.25</u>	<u>54.76</u>	<u>33.80</u>	<u>5634.33</u>

Co-efficient of fineness..... .753
Any modification necessary [Para. 4 (a) to (e)]* + .01 for shallow longitudinal
Co-efficient as corrected76

Sheer { Stem..... 10.2 } 153 ÷ 2 = 76.5 ... Mean
at { Sternpost .. 51 }
Sheer at 1/2 of the length from { Stem 56 } 83.5 ÷ 2 = 41.75 ... Mean
{ Sternpost 24.5 }
Gradual mean Sheer 75.9
Standard mean Sheer [Table, Para. 18] 50.42 Correction
Difference..... 25.48 ÷ 4 = 6.37
§ If limited as Para. 18 (f) - 6 1/4

Rise in Sheer from amidships [Para. 18 (e)] { At front of bridge house.....
At after end of forecastle

¶ Fall in Sheer { Para. 18 (d) } ÷ 2 =
Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 5-7 1/2
Correction for Length, if required (Para. 12, 13, and 14) + 3/4
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) 8-4
Difference 2-7 3/4
Percentage as below..... 30/18 x 31.75 = 9.58
100

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)
Allowance for Deck Erections - 9 1/2

	Length.	Length allowed.	Height.
Forecastle.....	<u>53.75</u>	<u>53.75</u>	<u>8-0</u>
Bridge House.....	<u>32.83 + 11' overhang each end</u>	<u>33.98</u>	<u>8-0</u>
† Raised Q. Dk.....			
Poop.....	<u>104.0</u>	<u>104.00</u>	<u>8-0</u>
Total.....	<u>192.41 = 4.76</u>	<u>191.73</u>	<u>4.74</u>
Length of Ship.....	<u>404.25</u>	<u>404.25</u>	
Corresponding percentage (Para. 11, 12, 13, or 14).....			<u>30/18 p.</u>

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck:—

Fresh Water Line	above centre of Disc	...
Indian Summer Line	" " "	...
Winter Line	below " "	...
Winter North Atlantic Line	" " "	...

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¶ If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
¶ In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.
¶ In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and stern-post. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

Moulded Depth as measured..... 33-0
Addition for Keel below base line for draught record..... 2 1/2 inches.

NOTE.—If the depth is measured when vessel is afloat, the details of measurement should be reported.

CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 404.25
Length in Table 396.00
Difference 8.25
Correction for 10ft., Table A. 1.6 Table C. .8
× Difference divided by 10 1.32 (if required.) .66
If 1/10ths length covered divide by 2 + 1 1/4 + 3/4

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered 4.76
Thickness of usual wood deck, less stringer 4-1.70
3.7 x 4.76 = - 1 1/2

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 53-6
Round of Beam 13 1/2
Normal round..... 13 1/2
Difference ÷ 2 =
Proportion of Deck uncovered (Para. 19)

NOTE.—The round of beam should be reported on the full breadth of vessel at the gunwale.

Freeboard, Table A 8-9
Correction for Sheer - 6 1/4
Correction for Length 8-2 3/4
+ 1 1/4
Allowance for Deck Erections 8-4
- 9 1/2
Correction for Round of Beam..... 7-6 1/2
Correction for fall in Sheer (if any).....
Correction for Iron Deck (if required) - 1 1/2
7-5
Additions for non-compliance with provisions of Para. 11 (d) and (e) †
Other Corrections (if any)

Winter Freeboard 7-5
Summer Freeboard (6) 6-11
Indian Summer Freeboard 6-5
N. A. Winter Freeboard

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the ~~wood~~ steel deck with side. + 1 3/4

Winter Freeboard from deck line 7-6 3/4
Summer " " " " 7-0 1/4
Indian Summer " " " " 6-6 3/4
N. A. Winter " " " " 7-0 1/2
7 1/4 ← 1/40 x 12820 = 7.24
43.96

† State dimensions of freeing port area on back of this form.

¶ The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.

MARKING FORM

RECEIVED

002592-002601-0004

5-MAR-1924

Do all the Frames extend to the top height in the Poop? *Long framing* Raised Quarter Deck? ☒ Bridge House? *Long framing* Forecastle? *Long framing*

To what height do the Reverse Frames extend? *Long framing*

Has the Poop ~~or Raised Quarter Deck~~ an efficient Iron Bulkhead at the fore end? *Yes*

Give particulars of the means for closing the openings in Bulkhead *weather boards full height in riveted channels*

Is the Poop ~~or Raised Quarter Deck~~ connected with the Bridge House? *No* Has the Bridge House an efficient Bulkhead at the fore end? *Yes*

Give particulars of the means for closing the openings in Bulkhead *One opening closed with Mechans hinged W.T. door (5'-6" x 2'-6")*

What is the thickness of the Bridge Front plating? *.46* and Coaming plate? *.46*

Give scantlings and spacing of the Stiffeners *11 x 3 1/2 x 50 B.A. spaced 3'-3"*

Are bracket plates fitted at each end of the Stiffeners? *Yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *Yes*

Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes* *Mechans hinged W.T. door (5'-6" x 2'-6")*

How are the openings closed? *Centre line opening with weather boards full height in riveted channels. Two wing openings to alleyways with*

Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron ~~or Wood~~ Bulk'd. at after end? *Yes*

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Covered by a Poop.*

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? ☒

Give thickness of plating; scantlings and spacing of Stiffeners ☒

What is the height of the exposed Casings? *8'-0"* Are suitable means provided for closing all openings in them in bad weather? *Yes*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *Yes.*

Position and Size.		No. 1 - <i>FORE END</i> <i>9'-0" x 12'-0"</i>									
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING	Height above top of DECK	<i>30"</i>	<i>24"</i>								
	Thickness { Sides.....	<i>.44</i>									
	{ Ends.....	<i>.44</i>									
SHIFTING BEAMS OR WEB PLATES.	Number.....	<i>One</i>									
	Section and Scantlings.....	<i>10 1/2" x 7 1/2" x 30</i>									
	Material.....	<i>Steel</i>									
* FORE AND AFTERS.	Number.....	<i>Nil</i>									
	Section and Scantlings.....										
	Material.....										
HATCHES Thickness.....		<i>2 1/2</i>									
Remarks.....		<i>Satisfactory</i>									

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? *Strake between Main and Bridge Sheerstrakes?*

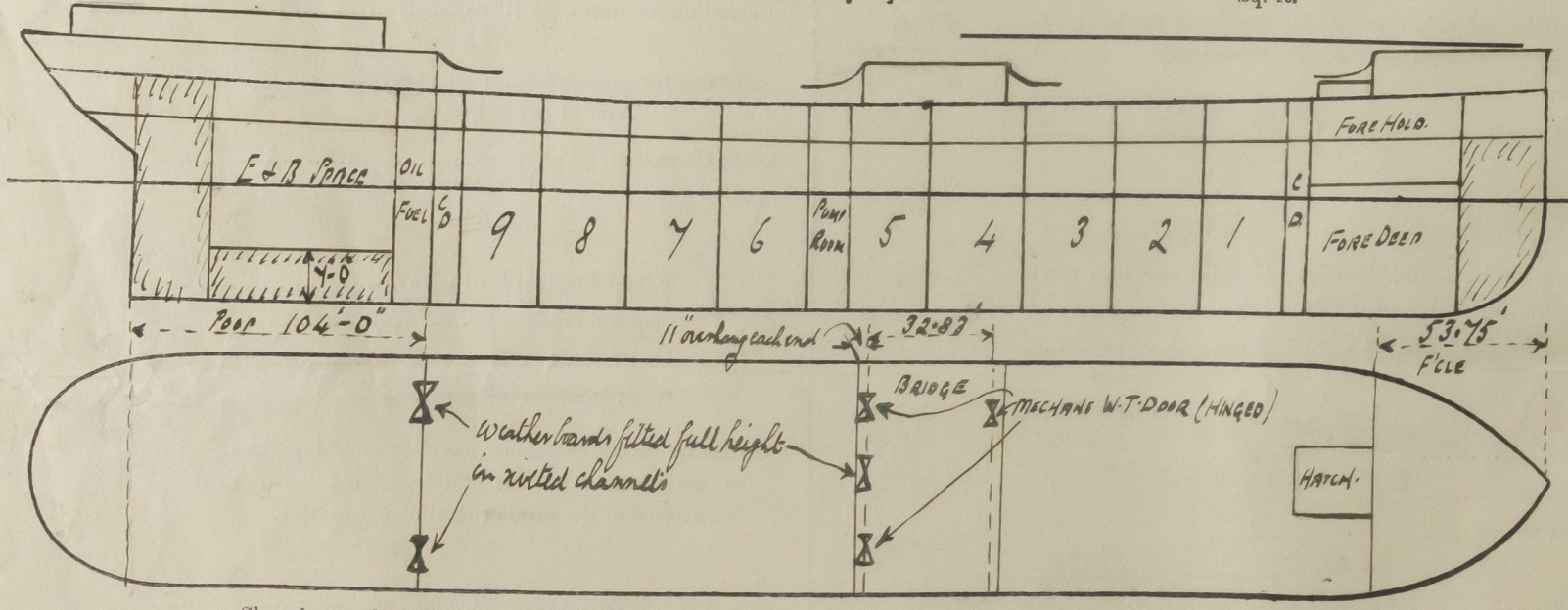
Delete the words { The Crew are, are not, berthed in the bridge house.
that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks in well

Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.

Ft.	Tenths.	Ft.	Tenths.	No.	} Freeing Ports (each side of vessel) =	Sq. ft.
x		x				
x		x				

Total deficiency or excess = Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *This vessel is an oiler (Isherwood framing) and has been constructed*

Builder's name and yard number *in accordance with the approved plans. A displacement & tons per inch*

Names of sister vessels *✓ scale are forwarded herewith also the approved midship section & profile which please*

Owners *British Tanker Co. Ltd* *return in due course. A preboard request form was forwarded*

Address *London* *with the preliminary report Ref No 28389.*

Fee £ *12* *will be charged on completion* Received by me *See F. & S. Report.*