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(For London Office only.)

# Lloyd's Register of Shipping.

FRI. AUG. 26 1921

## SURVEYS FOR FREEBOARD. STEAM SHIPS.

ARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH  
OP 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 NEWCASTLE-ON-TYNE  
Date of Survey 24th August 1921  
Name of Surveyor Gilbert Gray

Ship's Name EL OSO Port of Registry and Nationality London British Official Number 973  
Gross Tonnage 6695 Date of Build 1921 Particulars of Classification 100 A1 contemplated

REGISTERED	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
REGISTERED	440.50	57.50	34.05	6695
LENGTH ON	440.12	Frame Depth 9.3	Ceiling + .20	Peak
LINE.		Rule " 7.6	Sheer + .42	Tanks
		2.3 x 2. = .38 1/2	2.3 x 2. = .38 1/2	2.3 x 2. = .38 1/2
RECTED	440.38	57.45	35.0	6727

ent of fineness..... .76  
dification necessary }  
4 (a) to (e)]\* }  
ent as corrected ..... .76

em..... 8.10 1/2 } 13.4 1/2 ÷ 2 = 80.25... Mean  
ernpost 4.6 }  
of the length from { Stem 5.0 1/4 } 7.6 1/4 ÷ 2 = 46.45... Mean  
Sternpost 2.6 }  
mean Sheer ..... 46.0 45.37 = 85.6 82.5  
mean Sheer [Table, Para. 18] ..... 32.41  
Difference..... 13.6 12.96 ÷ 4 = 3.4 3.24  
ted as Para. 18 (f) ..... -3 1/4

Sheer { At front of bridge house.....  
idships {  
8 (e) { At after end of forecastle .....  
Sheer } ÷ 2 =  
18 (d) {  
ncovered ..... Correction

ALLOWANCE FOR DECK ERECTIONS :—  
1, Table C..... 5-10.5 5-10 1/2  
n for Length, if required (Para. 12, 13, and 14) 2.22 +3  
6-17.2 6-1 1/2  
1 by Table A. corrected for sheer, and for length, }  
if required (Para. 12, 13, and 14) 9-6.3 4 9-6 1/4  
e ..... 3-4.9 2 3-5 3/4  
ge as below..... 22.4 22.4  
q-16  
41 x 22.4 = 9.12

n for R. Q. Dk. if engine and boiler openings not }  
ered by bridge house (Para. 11) }  
e for Deck Erections ..... 9"

Length.	Length allowed.	Height.
e..... 41-6	41.5	7.6
ouse ..... 32-3	24.2	
Qr. Dk..... 92-0	92.0	
total ..... 165.9	157.7	3583
f Ship ..... 440.12	440.12	
ading percentage {		
N, 12, 13, or 14) {	22.4 39	

BOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck :—  
8.21  
Fresh Water Line above centre of Disc  
Indian Summer Line " " "  
Winter Line below " " "  
Winter North Atlantic Line " " "

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.

Moulded Depth as measured..... 33.11  
Wood deck line stop..... 32  
Addition for Keel below base line 33.72  
for draught record..... inches. 1 3/4

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..... 440.1 1/2 = 440.12  
Length in Table ..... 403.6 = 403.50  
Difference ..... 36.62  
Correction for 10ft., Table A. .... 1.7 Table C. 0.8  
× Difference divided by 10 ..... 1.22 (if required.) 2.92  
If 10ths length covered divide by 2 + 6 1/4 + 3

CORRECTION FOR IRON DECK.  
Proportion covered, if less than 10ths length covered .....  
Thickness of usual wood deck, less stringer .....  
Allowed in moulded depth.

CORRECTION FOR ROUND OF BEAM.  
Breadth at Gunwale amidships..... 56.0  
Round of Beam ..... 14  
Normal round..... 14  
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 ..... 9-0.12 9-0  
Correction for Sheer ..... -3.24 -3 1/4  
8-8.88 8-8 3/4  
Correction for Length ..... + 6.22 + 6 1/4  
9-3.10 9-2 3/4  
Allowance for Deck Erections ..... -9.16 -9  
8-5.94 8-5 3/4  
Correction for Round of Beam.....  
Correction for fall in Sheer (if any).....  
Correction for Iron Deck (if required) Allowed in moulded depth.

Additions for non-compliance with provisions of {  
Para. 11 (d) and (e) }  
Other Corrections (if any) .....

Winter Freeboard ..... 8-5 1/2  
Summer Freeboard ..... 7-11 1/4 8-0  
Indian Summer Freeboard ..... 7-5 6  
N.A. Winter Freeboard .....

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

Winter Freeboard from deck line ..... 8-7 3/4  
Summer " " " ..... 8-1 3/4  
Indian Summer " " " ..... 7-6 3/4 7 3/4  
N.A. Winter " " " ..... 8-1 1/2 8-1 1/2

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Do all the Frames extend to the top height in the Poop? *Yes long frame* Raised Quarter Deck? *no* Bridge House? *no* Forecastle? *no*  
 To what height do the Reverse Frames extend? *7x32 x 40 angle 1/2" top and bottom*  
 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 *no openings*  
 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 *hinged steel doors*  
 What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.40*  
 Give scantlings and spacing of the Stiffeners *9 x 3 1/2 x .64 bulk angle spaced 30" apart*  
 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*  
 How are the openings closed? *open end thus: -*  
 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? *yes and 7'-0" steel casing at*  
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *yes*  
 Give thickness of plating; scantlings and spacing of Stiffeners *yes*  
 What is the height of the exposed Casings? *yes* 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: -

Position and Size.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.
COAMING									
Height above top of DECK	30'	44'							
Thickness	40'	44'							
SHIFTER BEAMS OR WEB PLATES									
Number	11	11							
Section and Scantlings	8" x 40"	11" x 30"							
Material	Steel	Steel							
FORE AND AFTERS									
Number									
Section and Scantlings									
Material									
HATCHES Thickness	3"								
Remarks	wood.								

\* 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.

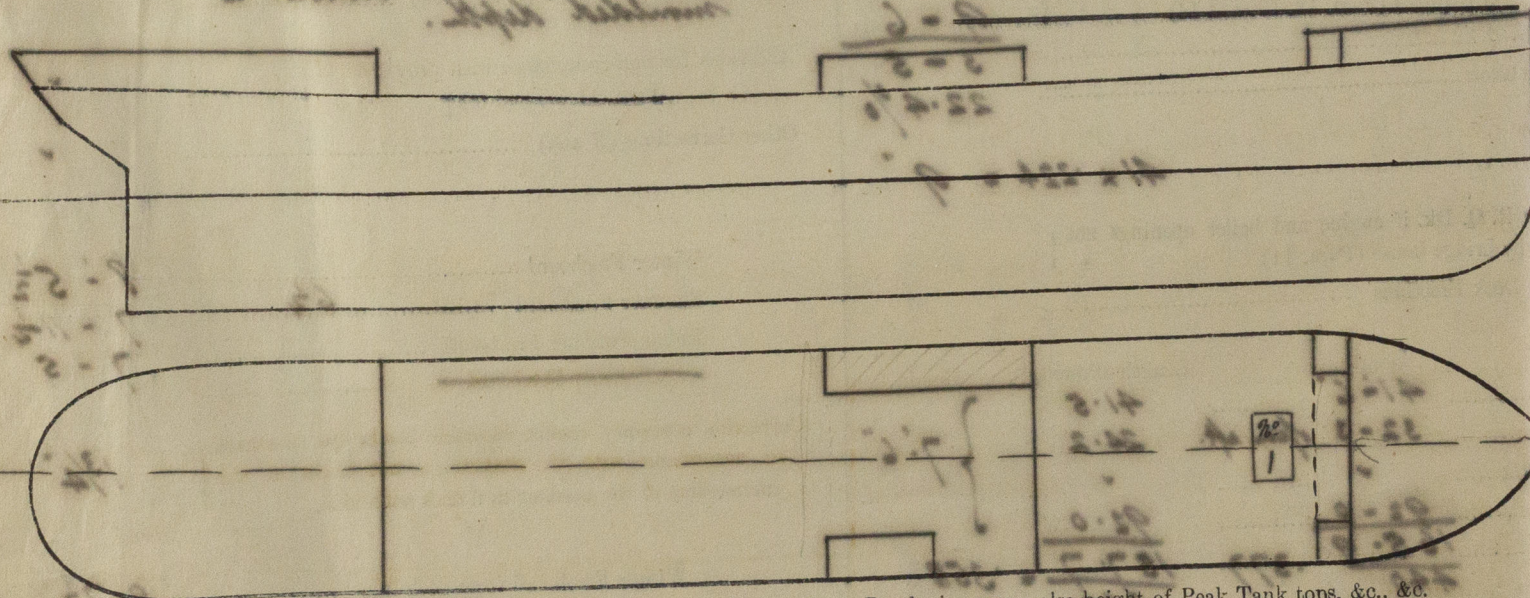
What is the thickness of the Bridge Sheerstrake? *Strake between Main and Bridge Sheerstrakes?*  
 Delete the words *The Crew are, are not, berthed in the bridge house.*  
 that do not apply *The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.*

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 form applies to Main Ship*  
*Armstrong Whitworth & Co. 973. Request form attached.*  
*Copies of approved plans in London Office*  
 Owners *Robt. Oilfields Ltd.*

Estimated Fee £ 12 : 0 : 0

Received by me