

New report No. 74669

Index No. 28405
(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
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 NEWCASTLE-ON-TYNE
Date of Survey 24th August 1921
Name of Surveyor J. H. Gray

Armstrong Whitworths 973

| | | | | | |
|------------------------------|---|-----------------|---------------|------------------------------|---|
| Ship's Name EL OSO | Port of Registry and Nationality <u>London</u> <u>British</u> | Official Number | Gross Tonnage | Date of Build <u>1921</u> | Particulars of Classification <u>100 A1 contemplated</u> |
| Number in Register Book | | | | | |

| | | | | |
|---------------------------------|--------------------------|--------------------------|------------------------|------------------------------------|
| Registered Length from Register | LENGTH. <u>440.50</u> | BREADTH. <u>57.50</u> | DEPTH. <u>34.05</u> | UNDER DECK TONNAGE. <u>6695</u> |
| Length on LOADLINE. | <u>440.12</u> | Frame Depth <u>93</u> | Ceiling + <u>.20</u> | Peak Tanks |
| | | Rule <u>7.6</u> | Sheer + <u>.42</u> | D.B. in E & B spaces + <u>32</u> |
| Corrected Length | <u>440.38</u> | <u>57.45</u> | <u>35.0</u> | <u>6727</u> |

Moulded Depth as measured..... 33'-11"
Wood deck less stringer 3 1/2"
 Addition for Keel below base line 33'-7 1/2"
 for draught record.....inches. 3 1/4"

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 6.22 (if required.) 2.92
 If 1/10ths length covered divide by 2 + 6 1/4 + 3

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths 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 0
 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 1/4
8'-8.88 8'-8 3/4
 Correction for Length + 6 1/4
9'-3.10 9'-2 3/4
 Allowance for Deck Erections - 9.16 - 9
8'-5.94 8'-5 1/4
 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 1/2 8'-0"
 Indian Summer Freeboard 7'-5 1/2 7'-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. 3 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 " " " "

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 8'-1 1/2" 8'-1 1/2"
 Indian Summer Line " " " " 6 1/2" 6 1/2"
 Winter Line below " " " " 6" 6"
 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.

Percentage of fineness..... .76
 Modification necessary
 [4 (a) to (e)]*
 Percentage as corrected76

Mean Sheer 46.0 45.37 82.5
 Mean Sheer [Table, Para. 18] 32.41
 Difference..... 13.6 12.96 ÷ 4 = 3.24
 Corrected as Para. 18 (f) - 3 1/4"

Sheer { At front of bridge house.....
 amidships {
 8 (e) { At after end of forecastle

Sheer {
 18 (d) { ÷ 2 =
 uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Table C..... 5'-10.5 5'-10 1/2"
 Correction for Length, if required (Para. 12, 13, and 14) * 2:27 + 3
6'-17.27 6'-1 1/2"
 Correction by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) 9'-6.374 9'-6 1/4"
 Correction 3'-4.92 3'-4 3/4"
 Correction as below..... 22.39
9.16
11.224 = 9.12

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

| | | | |
|-----------------------------|-------------|-----------------|----------------|
| | Length. | Length allowed. | Height. |
| Keel to top of R. Q. Dk. | <u>41-6</u> | <u>41.5</u> | } <u>7'-6"</u> |
| House to top of R. Q. Dk. | <u>32-3</u> | <u>24.2</u> | |
| Qr. Dk. to top of R. Q. Dk. | <u>92-0</u> | <u>92.0</u> | |

Total 165.9 157.7 3583
 Length of Ship 440.12 440.12

Loading percentage {
 N, 12, 13, or 14) } 22.39

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 8'-1 1/2" 8'-1 1/2"
 Indian Summer Line " " " " 6 1/2" 6 1/2"
 Winter Line below " " " " 6" 6"
 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.

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

W418-0000

Do all the Frames extend to the top height in the Poop? *Yes long* Raised Quarter Deck? *no* Bridge House? *no* Forecastle? *no*
 To what height do the Reverse Frames extend? *fronts*
 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 bull 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?
 Give thickness of plating; scantlings and spacing of Stiffeners
 What is the height of the exposed Casings? Are suitable means provided for closing all openings in them in bad weather?
 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:—

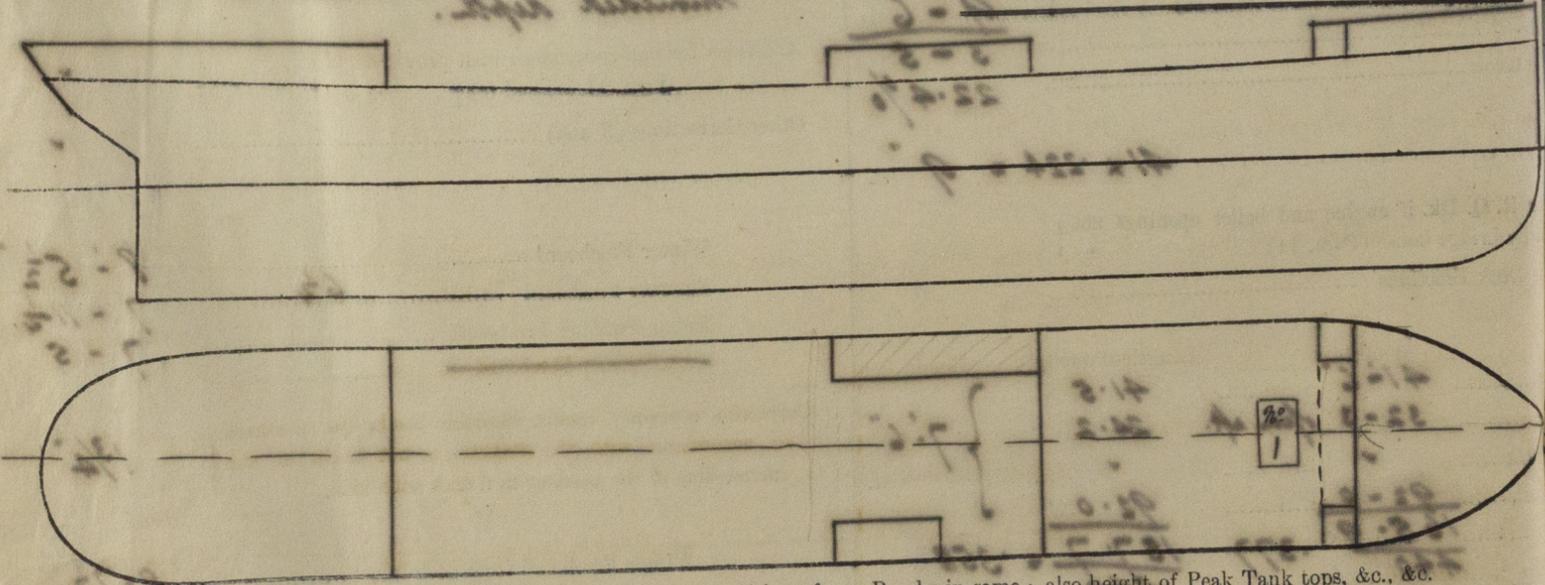
| Position and Size. | 9'-0" x 12'-0" | | | | | | | | | |
|------------------------------|--------------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Item. | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. |
| COAMING | Height above top of DECK | 30' | | | | | | | | |
| | Thickness | Sides .40 Ends .40 | | | | | | | | |
| SHIFTING BEAMS OR WEB PLATES | Number | 11 | | | | | | | | |
| | Section and Scantlings | 8" x 40" I 3 x 3 x 3/8" I | | | | | | | | |
| | Material | Steel | | | | | | | | |
| * FORE AND AFTERS | Number | | | | | | | | | |
| | Section and Scantlings | | | | | | | | | |
| | Material | | | | | | | | | |
| HATCHES | Thickness | 3" | | | | | | | | |
| Remarks | <i>wood.</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.
 What is the thickness of the Bridge Sheerstrake? *1 1/2"* Strake between Main and Bridge Sheerstrakes? *1 1/2"*

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 = _____ Sq. ft.
 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.
 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 Deck*
Amstrong Whitworth & Co. No. 973. Request form attached.
Copies of approved plans in London Office
 Owners *Robito Oilfields Ltd.*

Estimated Address _____
 Fee £ 12 : 0 : 0 Received by me _____

