

Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.

8015.

Compilation of Freeboard for Steamer, Sailing Ship, Tanker

having

Poop, Bridge &amp; Forecastle

Port of Survey

Marselles

(Type of Superstructures.)

Mixed 10.41 8/8/41

Date of Survey

29.10.32 10.32

Ship's Name

Nationality and Port of Official Number

Gross Tonnage

Date of Build

Name of Surveyor

W. H. Waggott

Moulded Dimensions: Length 399.5 Breadth 52.0 Depth 31'-0"

Moulded displacement at moulded draught = 85 per cent. of moulded depth

Coefficient of fineness for use with Tables

775

tons

Particulars of Classification

+100 A.I.

SS Mtd. No. 3-10-30

## Depth for Freeboard (D)

Moulded depth ... 31'-0"

Stringer plate ... 0.4

Sheathing on exposed deck

$$T \left( \frac{L-S}{L} \right) =$$

Depth for Freeboard (D) = 31.04

## Depth correction

(a) Where D is greater than Table depth

$$(D - \text{Table depth}) R = (31.04 - 26.63) 3 = +13.23$$

(b) Where D is less than Table depth (if allowed)

$$(\text{Table depth} - D) R =$$

If restricted by superstructures

## Round of Beam correction

Moulded Breadth (B)

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} = 12.48$$

$$\text{Ship's Round of Beam} = 13.2$$

Difference

0.72

Restricted to

$$\text{Correction} = \frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{0.72}{4} \times 0.4965 = -0.06$$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	49.25	49.25	7'-11 1/2"		49.25
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	112.66	112.66	7'-11 1/2"		112.66
" overhang aft ...					
" overhang forward ...	38.25	38.25	7'-11 1/2"		38.25
" overhang ...	1.00	1.00			1.00
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	201.16	201.16			201.16

Standard Height of Superstructure

7.5

" " R.Q.D.

Deduction for complete superstructure

41.96

Percentage covered  $\frac{S}{L} = 50.35$ " "  $\frac{S_1}{L} = 50.35$ " "  $\frac{E}{L} = 50.35$ 

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 36.35

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 41.96 x 36.35 = -15.25

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	49.95	1		49.95	60	60.00	1		60.00
1/2 L from A.P. ...	22.23	4		88.92	26	26.47	4		105.88
1/4 L " ...	5.49	2		10.98	7	6.62	2		13.24
Amidships ...		4			0		4		
1/4 L from F.P. ...	10.19	2		21.98	13	13.23	2		26.46
1/2 L " ...	44.46	4		177.84	52	52.93	4		211.72
F.P. ...	99.90	1		99.90	120	120.00	1		120.00
Total ...				449.57					537.30

Mean actual sheer aft =

Even

Mean standard sheer aft =

Mean actual sheer forward =

Even

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

15

" " aft of " =

132

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left( \frac{75-S}{2L} \right) = \frac{449.57}{18} \left( \frac{75-2517}{2L} \right) = -2.43$$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 31.04

Summer freeboard = 5.98

Moulded draught (d) = 25.06

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 6.26 = 159

## Addition for Winter North Atlantic Freeboard (if

required =

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta = 11553$ 

Tons per inch immersion at summer load water line

T = 41

Deduction =  $\frac{\Delta}{40 T}$  inches

= 7.03

179

## TABULAR FREEBOARD corrected for Fresh Deck (if required)

Correction for coefficient

$$\frac{775 + 68}{1.36} = \frac{1.455}{1.36}$$

Depth Correction ... 13.23

Deduction for superstructures ... 15.25

Sheer correction ... 2.43

Round of Beam correction ... 0.06

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

71.34

76.32

+

-

13.23

15.25

2.43

0.06

13.23

17.74

4.51

Summer Freeboard = 71.81

## SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc ... 3.29 = 338

Fresh Water Line " " 7.03 = 179

Tropical Line " " 6.26 = 159

Winter Line below " " 6.26 = 159

Winter North Atlantic Line " " ...

Tropical Fresh Water Freeboard ... 1.455 = 148

Fresh Water " " 1.455 = 148

Tropical " " 1.455 = 148

Winter " " 1.455 = 148

Winter North Atlantic " " 1.455 = 148

71.81 = 1824

1.455 = 148

1.455 = 148

1.455 = 148

1.455 = 148

1.455 = 148

1.455 = 148

1.455 = 148

1.455 = 148

1.455 = 148

1.455 = 148



## PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	Nº1	Nº2	Nº3	Nº4	Hatch on Bridge Deck		
Dimensions of Hatchway	...	...	32' 6" x 20'	34' 8" x 20' 0"	34' 8" x 20' 0"	28' 2" x 20' 0"	10' 10" x 18' 0"		
COAMINGS	Height above Deck	...	30"	30"	30"	30"			
	Thickness	Sides	44	as Nº1	as Nº1	as Nº1	as Nº1		
	Stiffeners	...	BA. 7 1/2 x 3 x 40						
	Brackets, Stays	...	10" from Top						
HATCH BEAMS	Number	...	6	6	6	5	1		
	Spacing	...	4' 8"	5' 1/2 app	5' 1/2 app	4' 8"	5' 5"		
	Scantling and Sketch	...	L <sup>s</sup> 3 1/2 x 3 1/2 x 35 - 18" x 36	as Nº1	as Nº1	as Nº1	as Nº1		
	Bearing Surface	...	3"	3"	3"	3"	3"		
FORE AND AFTERS	Number	...	/	/	/	/	/		
	Spacing	...	/	/	/	/	/		
	Unsupported Lengths	...	/	/	/	/	/		
	Scantling* and Sketch	...	/	/	/	/	/		
	Bearing Surface	...	/	/	/	/	/		
HATCH COVERS	Material	...	Pine						
	Thickness	...	2 1/2"						
	How fitted	...	F & A	as Nº1	as Nº1	as Nº1	as Nº1		
	Bearing Surface	...	3"						
Spacing of Cleats	...	...	2 ft	/	/	/	/		
Number of Tarpaulins	...	...	3	/	/	/	/		

\*Are wood fore and afters steel shod at all bearing surfaces ?  
Are battens and wedges efficient and in good condition ?  
Are tarpaulins in good condition and in accordance with rule requirements ?  
Are lashings provided in accordance with rule requirements ?

Particulars of fiddley, funnel and ventilator coamings:—

Strokehold goatings covered by strong steel hinged covers  
Fiddley funnel & vents in efficient condition  
Engine Room skylights of steel and strongly constructed

Particulars of Flush Bunker Scuttles:—

- none -

Particulars of Companionways :—

1 Steel companion 5ft x 4'3" x 6ft high on poop deck leading to Enclosed stores. 2 Doors of hard wood 1 3/4" thick facing aft with sill of 9". Doors - 5ft 6" x 2ft spring lcks, operated both sides

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

7H-ventilation to NW hole specially supported, others 7H kept protected

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—												
Ftble.:-	1	vent	3 ft High	9" Dia	6/20	coming	6" F. Stair	APPER WELL	1 Vent 4 1/2" High 2 1/2" Dia	coming	1/20	No 3 Head
	2	" 5	3 1/2	9"	6/20	"	6" Felle	" 1 Vent 4 1/2" High 2 1/2" Dia	"	1/20	No 3 Head	
	2	" "	3 1/2	1 1/4" Dia	6/20	"	6" No 1 Head	" 2 " 9" " 1 1/2" "	"	1/20	No 3 Head	
Fore Dt.:-	2	" "	1 1/2	6"	6/20	"	6" Felle	2 " 7 1/2" " 1 1/2" "	"	1/20	No 4 Head	
	2	" "	7 1/2	1 1/8"	9/20	"	" No 1 1/2 Head	Roof	" 6 Vents 2 1/2" " 1 1/2" "	7/20	cross Head	
	1	" "	4 1/2	6"	10/20	"	" No 2	" No 2 " (supplied) 3 " 2 1/2" " 1 1/2" "	"	8/20	No 4 Head	
Bridge:-	2	" "	7 1/2	6"	9/20	"	" T.D.	2 " 2 1/2" " 6"	"	4/20	" above	
	2	" "	2 1/2	6"	6/20	"	" "	1 " 2 1/2" " 9"	"	7/20	" above	
	2	" "	2 1/2	8"	12"	6/20	" "	" "	"	7/20	" above	

Particulars of Air Pipes in <sup>2</sup>exposed positions on freeboard, raised quarter, or superstructure decks:—

Efficient cleaning appliances provided

Particulars of Gangway Cargo and Coaling Ports:—

8 watertight cargo doors (4 P & 4 S) between foreboard deck & Fore Dk  
in way of Nos 1, 2, 3 & 4 holds 2 ft 9" x 2 ft 9" strongly constructed L stiffener  
Round door fixed by strong backs.

4 watertight doors (2 P & 2 S) to Fore Dks in Bridge space fore Door.  
5 ft 6" x 5 ft aft Door 6 ft 3" x 6 ft 3" strongly constructed L stiffener  
Round door & fixed by strong backs

## Particulars of Scuppers and Sanitary Discharge Pipes

Particulars of Scuppers and Sanitary Discharges		Pipes	
Fore Well	2 scuppers (10 x 15)	5" Dia	through 1st 7" from shell.
after well	2 " (10 x 15)	5" Dia	" " " " " "
	2 " (30 x 35)	6" x 3"	through gunnery bar
2 Sanitary Discharges (10 x 15)	5" Dia	name at ship's side	Below F.B.D.
2 Wash	(10 x 15)	2"	" " " " " "
Bridge: 3 Sanitary	(10 x 25)	5"	" " " " " above
6 Wash	(30 x 35)	2 1/2"	" " " " " "
1 Sanitary	(10)	5"	" " " " " "
Particulars of Side Scuttles:	(30 x 35)	2 1/2"	" " " " " "

all side scuttles below F.B.D. filled with Deadlights  
side scuttles to crews space in felt provided with  
suitable deadlights  
all scuttles of substantial construction

### Particulars of Guard Rails :—

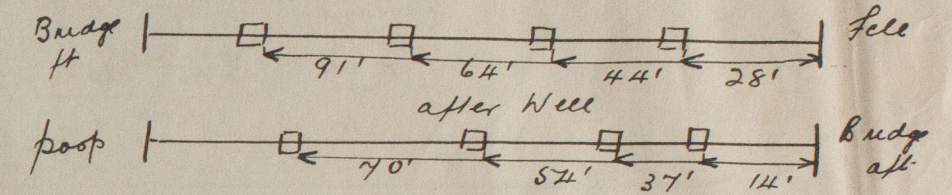
Guard Rails on Side of Hoop 5 ft stanchions apart 3 ft 6" high  
3 Rails.  
Steel Bulwarks in fore water wells on Bridge 3 ft 8" High - efficiently  
constructed & supported.

Particulars of Gangways, Lifelines, etc. :—

X

— Suitable provision made for digging  
lifebuoy — Freeing ponds —  
Tax well

— ~~None fitted~~ —



## Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
Star Well ... ..	98.34 ft	3 ft 8"	3 ft 6" x 18"	4	21.0	19.66
Forward Well ... ..	100 ft	3 ft 8"	3 ft 6" x 18"	4	21.0	20.0

State position of each freeing port ... .. { After Well:—  
(F. and A. position and height above deck edge) { Forward Well:— *See sketch*

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—

Additional area where sheer is less than standard.

{ 2 Rails  
16" above Dk.

## Particulars of Superstructures, Trunks, Casings, Deckhouses.

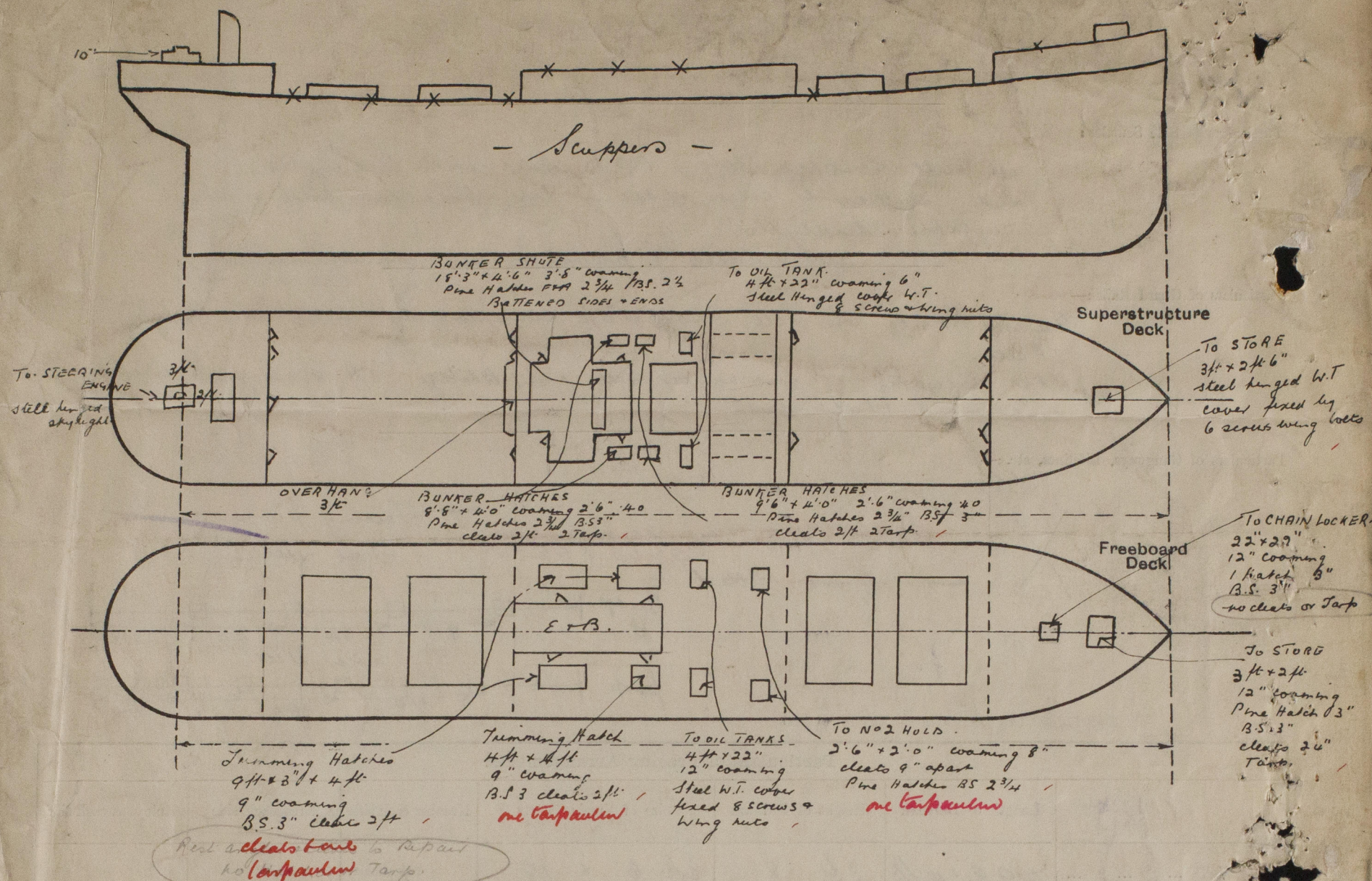
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ... ..	8/20 ✓	8/20 ✓	6 1/2" x 3 1/2" x 35 ✓	33" ✓	{ none.	5 1/2" x 3 1/2"	18"	4' 11 1/2"
Raised Quarter Deck Bulkhead ...						5 1/2" x 3' 9"	18"	
Bridge, After Bulkhead ... ..	7/20 ✓	7/20 ✓	3 1/2 x 3 1/2 x 35 ✓	30" ✓	{ none Top-Bottom	5 1/2" x 3 1/2"	12"	4' 11 1/2"
Bridge, Forward Bulkhead ... ..	8/20 ✓	8/20 ✓	3A. 9 x 3 1/2 x 45 ✓	39" ✓		5 1/2" x 3 1/2"	14"	
Forecastle Bulkhead ... ..	6/20 ✓	6/20 ✓	3 1/2 x 3 1/2 x 40 ✓	30" ✓	{ none	5 1/2" x 3 1/2"	16"	- do -
Trunk, Aft ... ..						5 1/2" x 3 1/2"	14"	
Trunk, Forward ... ..								
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...								
Exposed Machinery Casings on Super- structure Decks ... ..	6/20 ✓	6/20 ✓	3 1/4" x 3" x 30 ✓	36" ✓	{ none	2 1/2" x 5 1/2"	15"	4' 6"
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ... ..	6/20 ✓	6/20 ✓	3 1/4" x 3" x 30 ✓	36" ✓		5 1/2" x 2 1/2"	8"	
						5 1/2" x 3 1/4"	8"	
Deckhouses on Flush Deck Ships ...								

## Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Location	Quantity	Description
Poop Bulkhead	...	3 openings, steel hinged doors, carriage handles opening both sides
Raised Quarter Deck Bulkhead	...	1 opening, steel hinged door, spring locks, opening both sides
Bridge, After Bulkhead	...	4 openings, covered by steel hinged plate 5/16" thick, fastened by pad lock
Bridge, Forward Bulkhead	...	1 opening, steel hinged door, 1 1/2" spring locks opening one side
Forecastle Bulkhead	...	2 openings, steel hinged doors, 1 1/2" spring locks opening both sides
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	...	4 openings, steel hinged doors, 1 1/2" spring locks opening both sides
Exposed Machinery Casings on Superstructure Decks	...	2 openings, steel hinged doors, 1 1/2" spring locks opening both sides
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...	2 openings, steel hinged doors, 1 1/2" spring locks opening both sides
Deckhouses on Flush Deck Ships	...	2 openings, steel hinged doors, 1 1/2" spring locks opening both sides



Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



State any special features in the construction of the ship:—

Displacement figures taken off scale on vessel

25 ft	2 7/8"	= 8060 Tons D.W.
23 ft	0"	= 7200 " " "
22 ft	2"	= 6800 " " "
21 ft	0"	= 6000 " " "
20 ft	2"	= 5600 " " "
16 ft	3 1/2"	= 4000 " " "
15 ft	1"	= 3200 " " "

26.35 = 85% DM  
 26.35 - 25.00 = 1.35  
 1.35 x 12 x 41 = 11420  
 11420 + 763 = 12183  
 12183 - 60 = 12123

Vessel surveyed afloat in Dry dock & does not embrace any part of the Requirement of Special Survey.

25.00 = 11420  
 133  
 11553

Builder's name and yard number Workman, Clark & Co Ltd Belfast.  
 Names of sister ships \_\_\_\_\_  
 Owners Soc. Marseillaise de Nav à Vap (Soc. Frassinet)

Fee £19.50 — Received by me Just.  
 Exp Fr 18 —



3 MAY 1945

## Lloyd's Register of Shipping.

Ship's Name *S.S. "Tombouctou."*Official No. *142488*

Memorandum of alterations reported since ship was surveyed for assignment of Load Lines in the after end of the Bridge space.

There has been a steel bulkhead fitted on the Port side from Frame N: 77 to the Engine casing.

Openings in the Bridge after end bulkhead:

There are no more openings with stormboards in riveted channels.

There is one opening with hinged steel door, for access to the Bridge space.

One opening with hinged steel door, for access to the Engine Room.

One opening with hinged steel door for access to the Refrigerating room (on Port side, at after end, in the Bridge space, between the steel bulkhead and the after end bulkhead).

A copy of this Report has been attached to the Load Line Certificate N: 20853.

*J. L. Raboey*  
20-4-45.

*Noted*  
14 MAY 1945  
*J.P.S.*

