

## Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD-STEAMERS.

Index No.

(For London Office only.)

Port of Survey

Date of Survey

Name of Surveyor

6/2/31

Ship's Name. <i>Clan Mackenzie</i>	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build. 1917.	Particulars of Classification. + 100A.1 Shelly Beck with free
Number in Register Book					

Moulded dimensions 420.1' x 53.16' x 39.0' to Shelly Beck

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

Coefficient of fineness for use with tables

Not yet recd

## DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	...	39.0
Stringer plate	...	...	...	...	...	.04
Sheathing in wells $T \left( \frac{L-S}{L} \right) =$	...	...	...	...	...	✓
Depth D =	...	...	...	...	...	39.04

## CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15} = 28.01$	
$\left( D - \frac{L}{15} \right) \times R = \frac{(39.04 - 28.01) \times 3}{11.03}$	+ 33.09
(b) When D is less than $\frac{L}{15}$ (if allowed).	
$\left( \frac{L}{15} - D \right) \times R =$	...
If restricted by height of superstructures	...

## SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S <sub>1</sub> .	Height.	Correction for Height.	Effective Length.
Poop enclosed	...	...	...	...	...
" overhang	...	...	...	...	...
R.Q.D. enclosed	...	...	...	...	...
" overhang	...	...	...	...	...
Bridge enclosed	...	...	...	...	...
" overhang aft	...	...	...	...	...
" overhang forward	...	...	...	...	...
F'cle enclosed	34.0	34.0	7.6	✓	34.0
" overhang	...	...	...	...	...
Trunks forward	...	...	...	...	...
" aft	...	...	...	...	...
Tonnage opening	...	...	...	...	...

TOTAL =

34.0

34.0

34.0

Length of ship (L) = 420.1

420.1

420.1

% Covered ... = 6.4

6.4

6.4

Corresponding %, corrected for absence of forecastle if required } A = 3.20

B =

Correction for Bridge less than 2L if required }

Bridge not fitted

Allowance ... = 42.0

x .082

= - 1.34

## SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	60.0	52.0			
2	25.3				
3	6.3				
4	0				
5	13.65				
6	54.6				
F.P. 7	120.0	104.0			

If excess sheer forward and deficient sheer aft :-

Actual sheer aft =

Standard sheer aft =

Actual sheer forward =

Standard sheer forward =

Length of enclosed superstructure L

No Bridge

Forward of amidships =

Aft of amidships =

Mean effective sheer	...	...	...	...	...	18
Standard sheer .05L + 5 =	...	...	...	...	...	
Difference (Df)	...	...	...	...	...	
Allowance = $Df \times \left( .75 - \frac{S}{2L} \right) =$	...	...	...	...	...	
If limited on account of amidship superstructure	...	...	...	...	...	
If limited on account of excess sheer (1½ in. per 100 ft.)	...	...	...	...	...	

## ROUND OF BEAM.

Standard	...	...	...	...	12.76
Ship	...	...	...	...	13.0
Difference	...	...	...	...	.24
Restricted to	...	...	...	...	
Allowance = $\frac{\text{Difference}}{4} \times \left( 1 - \frac{S}{L} \right) =$	...	...	...	...	.06 x .96 = .06

## TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient	×	+ .68	=	
		1.36		
Correction for Length	...	...	...	33.09
" Superstructures	...	...	...	1.34
" Sheer	...	...	...	.06
" Round of beam	...	...	...	
" Thickness of deck	...	...	...	
" Scantlings, etc.	...	...	...	
" Statutory deck line	...	...	...	

Present Fbds { 11- 1/4 S  
11- 8/4 W.

77.83

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	" " "	...	...	...

Summer Freeboard

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2515-0046