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Form LL. 4.C. Revised

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

"SEASILVER" SURVEY FOR FREEBOARD

20/6/45

STEAMER, TANKER, SAILER: ^{S.M.} Ex "Empire Seasilver"

Nationality British Builders' Name and No. of Ship Shipbuilders Corporation Ltd (Empire Branch)

Port of Registry NEWCASTLE Owners SEAWAY COASTERS LTD LONDON

Official Number 169200 (Meas) BRITISH CHANNEL ISLANDS SHIPPING CO LTD.

Gross Tonnage 517.81 Port and Date of survey Newcastle DURING CONSTRUCTION

Date of Build JULY 1945 Name of Surveyor J. M. Swindon

Particulars of Classification BS * (WITH FREEBOARD) Names of Sister Ships Empire Seaport - Empire Seabrook

Type of Superstructures Closed Sull. Deck

Trade of Ship

Service Endorsement if any

ALL SEASONS

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (..... wood steel)		<u>8' 6 1/2"</u>
TROPICAL FRESH WATER LINE above centre of disc	-	Corresponding Freeboard
FRESH WATER LINE " " "	<u>2 1/2"</u>	<u>8' 4"</u>
TROPICAL LINE " " "		
WINTER LINE below " "		
WINTER NORTH ATLANTIC LINE " " "		

See later comp

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line		
TROPICAL FRESH WATER Timber line above L.S.		Corresponding Freeboard
FRESH WATER " " " "		
TROPICAL " " " "		
WINTER " " below "		
WINTER NORTH ATLANTIC " " " "		

Number of years recommended for load line certificate

DATE of ISSUE 31-11-45
DATE of EXPIRY 30-7-50

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

Chief Surveyor

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the

4th July 1945

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 Secretary

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COMPUTATION OF FREEBOARD

Length on summer load line **140'4"** Moulded Breadth **27'0"** Moulded Depth **18'0"** Depth of Keel **4'0"**
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth @ **15'3 1/2"** Tons **1311**
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .7915$
 Displacement and tons per inch immersion in salt water at summer load line **738 @ 7.96 T.P.I.**
 Moulded depth **18'0"** **18.000** Deduction for Fresh Water $\frac{\Delta}{40T} = 2.32$ inches
 Stringer Plate **.25** **.021** Round of Beam Correction
 Sheathing on exposed deck T $\frac{L-S}{L}$ **-** Ships Round of Beam **STRAIGHT (AMOUNT 6" EQUIV. = 7.29** inches
 Rise of floor (in sailers) **-** Standard Round of Beam $\frac{B \times 12}{50} = 6.48$
 Depth for Freeboard (D) **18.021** Difference **.81**
 Table Depth **1.15** $\times \frac{9.356}{1.15} = 9.356$ Restricted to
 Depth Correction **1.130** $\times 8.665 = 9.35$ Correction $\frac{\text{Difference}}{4} \times (1 - \frac{H}{L}) = .2025 \times 1 = .2025$
 If restricted by superstructures **.2025 OFF**

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle						
Trunk Aft						
" Forward						
Tonnage Opening Aft						
" Forward						
Totals						

Flush Deck

Standard Height of Superstructure **-**
 " " R.Q.D. **-**
 Percentage covered S/L = **-**
 " " E/L = **-**
 " from Table line A, B, (corrected for absence of forecastle if required)
 Percentage from Table by interpolation for Bridge less than .2L if required = **-**
 Deduction = **-**
 Percentage from Table for Tankers (or Timber ships) = **-**
 Deduction = **-**

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.				1	
1/3 L from A.P.				4	
2/3 L from A.P.				2	
Amidships				4	
1/3 L from F.P.				2	
2/3 L " "				4	
F.P.				1	
				18	
Effective Mean Sheer					
Standard " " .05L+5					12.02
Difference					12.02

Mean Actual sheer aft = **-**
 " Standard " " = **-**
 Mean Actual sheer forward = **-**
 " Standard " " = **-**
 Length of enclosed superstructure forward of amidships = **-**
 Length of Ship
 Length of enclosed superstructure aft of amidships = **-**
 Length of Ship
 Sheer Correction = Difference $\times (75 - \frac{L}{2}) = 12.02 \times .75 = 9.015$ ON
 If limited on account of midship superstructure = **-**
 " to maximum allowance of 1 1/2 ins. per 100 ft. = **-**

TABULAR FREEBOARD corrected for flush deck if required = **14.24 + 2.11 = 16.35**
 Correction for co-efficient = $\frac{1472}{136} = 17.70$ DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction	9.35	-		
Deduction for superstructures	-	-		
Sheer correction	9.02	-		
Round of Beam correction	-	.20		
Correction for thickness of deck amidships	-	-		
Other corrections, scantlings, etc.	66.63	-		
Low Hatch Coamings FORWARD altered to 24"	85.00	.20		
ALL SEASONS Summer Freeboard in inches	85.00	.20		
Additional allowance for superstructures on Timber carrying ships	8' 0 1/2"	-		
Summer Timber Freeboard in inches				

Depth to Freeboard Deck in feet **18.021**
 All Seasons Summer Freeboard in feet **8.542**
 Moulded Draught (d) **9.479** (d1)
 Addition for Keel **.033**
 Extreme draught **9'6"** **9.512**
 Deduction for Tropical and addition for Winter freeboard d/4 = **-** ins.
 Addition for Winter North Atlantic (if required) = **-** ins.
 Deduction for Tropical Timber Freeboard $\frac{d1}{d}$ = **-** ins.
 Addition for Winter " " $\frac{d1}{3}$ = **-** ins.
 " " N.A. Timber Freeboard (if required) = **-** ins.

Form LL. 4.D.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT
 SURVEY FOR FREEBOARD
 CONDITIONS OF ASSIGNMENT

SHIPS NAME **SENYON** *Empire Seaside* OFFICIAL NUMBER **169200**
 Nationality and Port of Registry **British** *NEWCASTLE*

PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead								
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks	.20	.25	3 x 2 1/2 x 3/16 and 2 1/2 x 2 1/2 x 3/16	24 to 36	3-bolt connections upper area stiffeners	See sketch of Profile Deck	18 to 24"	7.0
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances								
Deckhouses on flush deck ships								

PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead **-**
 R.Q.D. " **-**
 Bridge Aft Bulkhead **-**
 " Forward " **-**
 Forecastle Bulkhead **-**
 Exposed Machinery Casings on Freeboard or R.Q. decks **-**
 Exposed Machinery Casings on superstructure decks **-**
 Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances **-**
 Deck houses on Flush Deck ships **-**

See sketch of Profile and Decks

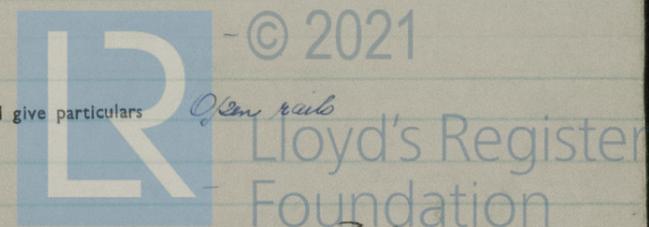
PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well					
Forward Well					

State fore and aft position and height above deck to bottom of port, for each port
 After Well
 Forward Well

State whether freeing ports are fitted with shutters, bars or rails, and give particulars

Give particulars of freeing port area, etc., on superstructure decks



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Give full particulars of the following:—

Fiddle, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casing tops and their means of closing (state height of coamings, type of fiddle covers, and if these are permanently attached in their proper positions)

No fiddle opening Steel E. R. skylight
Coamings #2 Height of casing 7'0"
Vent coaming 2 7/2" deep
Machinery vent 8' coaming with permanent cover

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

None

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

See sketch on this form

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

Steel Coams. 40 high above steel deck. Welded to deck. 3/8 bolts
3 1/2' wood 3/8 accomm
Machinery vent to acc; Coam 6' above wood deck. Screwed tops
Gosneck vents to stow 20' above deck to opening
Steel coam on E.R. casing 2 7/2'

Closing arrangements: Wood flaps and canvas covers to hold vents

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

Gosneck air pipes Minimum height to opening 20' above deck

Closing arrangements: Wood flaps and canvas covers

Seasilver.

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

No scuppers

Sanitary discharges about 11' above second deck, 3" dia fitted with storm valves.
Valves of gunmetal

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

Brass frames, ordinary type, with permanent C.I. deadlights
All 10" clear glass.

Vertical distance of sill of lowest side scuttle below top of freeboard deck at side amidships

Guard Rails on freeboard and superstructure decks (state type and where fitted)

Open rail 3' 3" high with 3 rods.

Gangways and Lifelines

None, Crew houses aft.

Gangway, Cargo and Coaling Ports in sides of ship

None

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SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructure and Machinery Casings comply with rules?

Is provision made for protection of steering gear?

Is emergency steering gear provided?

Are efficient sockets and eyes for lashings provided and properly spaced?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Particulars of any Special Features in the construction of the Ship

Composite principle, with longitudinal beams in holds. Chain plate & beams

Endorsement at first survey and at surveys for Renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition



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