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Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. **25668**
(For London Office only.)

Nº 100053

Computation of Freeboard for Steamer, Sailing Ship, Tug having POOP, BRIDGE AND FORECASTLE.					Port of Survey LIVERPOOL,
(Type of Superstructures.)					Date of Survey MARCH, 1932.
Ship's Name "CAPE VERDE"	Nationality and Port of Registry BRITISH, GLASGOW.	Official Number 142423	Gross Tonnage 5038	Date of Build 1918-5.	Name of Surveyor R.M. Scott.
Moulded Dimensions: Length 404.3 Breadth 53.0 Depth 30.0					Particulars of Classification 100 A1.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12114 tons					
Coefficient of fineness for use with Tables .780					

Depth for Freeboard (D) Moulded depth ... 30.00 Stringer plate05 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ NIL. Depth for Freeboard (D) = 30.05	Depth correction (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(30.05 - 26.95) 3 = +9.30"$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures <input checked="" type="checkbox"/>	Round of Beam correction Moulded Breadth (B) 53.0 $\text{Standard Round of Beam} = \frac{B \times 12}{50} = 12.66"$ Ship's Round of Beam 13" Difference .34" Restricted to <input checked="" type="checkbox"/> $\text{Correction} = \frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.34}{4} (1 - .5191) = -.04"$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	42.75	42.75	8.0	✓	42.75
„ overhang ...	NIL.				
R.Q.D. enclosed					
„ overhang					
Bridge enclosed...	125.66	125.66	8.0		125.66
„ overhang aft ...	NIL.				
„ overhang forward	NIL.				
Fore-castle enclosed	45.3	40.43	8.0		40.43
„ overhang ...	3.0	1.05			1.05
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ forward					
Total ...	210.94	209.89			209.89

Standard Height of Superstructure **7.5**
 „ „ R.Q.D. ☒
 Deduction for complete superstructure **42.00**
 Percentage covered $\frac{S}{L} = 52.17\%$
 „ $\frac{S_1}{L} = 51.91\%$
 „ $\frac{E}{L} = 51.91\%$
 Percentage from Table, Line A. ☒
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. **37.91** ☒
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than 2L (if required) ☒
 Deduction = $42.00 \times .3791 = -15.92$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	50.43	1		50.43	68.0	68.50	1		68.50
L from A.P. ...	22.44	4		89.76	30.0	28.44	4		113.76
L „ ...	5.55	2		11.10	8.0	7.11	2		14.22
amidships ...		4					4		
L from F.P. ...	11.09	2		22.18	15.5	14.22	2		28.44
L „ ...	44.89	4		179.56	56.5	56.88	4		227.52
A.P. ...	100.86	1		100.86	128.0	128.00	1		128.00
Total ...				453.89					580.44

Mean actual sheer aft = **Excess**
 Mean standard sheer aft
 Mean actual sheer forward = **Excess.**
 Mean standard sheer forward
 Length of enclosed superstructure forward of amidships = **.746**
 „ „ aft of „ = **.165**
 $\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{126.55}{18} \left(\frac{.75 - .2608}{2} \right) = -3.44"$
 If limited on account of midship superstructure.
 If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **30.05**
Summer freeboard = **5.67**
Moulded draught (d) = **24.38**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **6.10 = 6"**

Addition for Winter North Atlantic Freeboard (if required) = **✓**

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 11665$
Tons per inch immersion at summer load water line
 $T = 42.0$
Deduction = $\frac{\Delta}{40T}$ inches = **6.97 = 7"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction ...	9.30	-
Deduction for superstructures ...	-	15.92
Sheer correction ...	-	3.44
Round of Beam correction ...	-	.04
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc. ...	-	-
	9.30	19.40

Summer Freeboard = **68.08"**

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

Tropical Fresh Water Line above Centre of Disc ...	13"
Fresh Water Line „ „ ...	7"
Tropical Line „ „ ...	6"
Winter Line below „ „ ...	6"
Winter North Atlantic Line „ „ ...	✓

Tropical Fresh Water Freeboard ...	4'-7 1/4"
Fresh Water „ „ ...	5'-1 1/2"
Tropical „ „ ...	5'-2"
Winter „ „ ...	6'-2"
Winter North Atlantic „ „ ...	✓

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS															
Description of Hatchway			UPP. DK. No. 1.	UPP. DK. No. 2.	UPP. DK. No. 3.	UPP. DK. No. 4.	UPP. DK. No. 5.	BRIDGE DK. No. 3.	POOP DK.	IN BRIDGE SPACE COALING MATCHES ON UPP. DK.	IN BRIDGE SPACE 2 SMALL MATCHES ON UPP. DK.	COALING MATCH ON BEE. DK. & S.			
Dimensions of Hatchway			21'-8" x 18'-0"	30'-4" x 19'-0"	13'-0" x 18'-0"	34'-8" x 18'-0"	21'-8" x 18'-0"	13'-0" x 18'-0"	6'-6" x 8'-0"	8'-4" x 4'-0"	3'-0" x 2'-0"	6'-0" x 4'-0"			
COAMINGS	{	Height above Deck	3'-0"	3'-0"	9"	3'-0"	3'-0"	3'-0"	3'-0"	{	9' x 3' x 35"	{	9' x 3' x 35"	3'-0"	
		Thickness	5'-0"	6'-0"	5'-0"	6'-0"	5'-0"	4'-0"	3'-0"						3'-0"
		Sides	4'-4"	4'-4"	4'-4"	4'-4"	4'-4"	3'-5"	3'-0"						3'-0"
		Ends	7' x 3' x 35"	8' x 3' x 35"	NIL.	7' x 3' x 35"	7' x 3' x 35"	7' x 3' x 35"	NIL.						NIL.
Stiffeners	7' x 3' x 35"	8' x 3' x 35"	NIL.	7' x 3' x 35"	7' x 3' x 35"	7' x 3' x 35"	NIL.	NIL.	NIL.	NIL.	NIL.	3'-5"			
Brackets, Stays	NIL.	NIL.	NIL.	NIL.	NIL.	NIL.	NIL.	NIL.	NIL.	NIL.	NIL.	NIL.	3'-5"		
HATCH BEAMS	{	Number	4	5	2	6	4	2	NIL.	{	NONE.	{	NONE.	NONE.	
		Spacing	52"	60"	52"	59 1/2"	52"	52"	52"						52"
		Scantling and Sketch	16" x 36"	16" x 36"	16" x 36"	16" x 36"	16" x 36"	16" x 36"	16" x 36"						16" x 36"
		2 ANGLES	2 ANGLES	2 ANGLES	2 ANGLES	2 ANGLES	2 ANGLES	2 ANGLES	2 ANGLES						2 ANGLES
Bearing Surface	4' x 3' x 44"	4' x 3' x 44"	4' x 3' x 44"	4' x 3' x 44"	4' x 3' x 44"	4' x 3' x 44"	4' x 3' x 44"	4' x 3' x 44"	4' x 3' x 44"	NIL.	NIL.	NIL.	NIL.		
FORE AND AFTERS	{	Number	NONE	NONE	NONE	NONE	NONE	NONE	NONE	{	NONE.	{	NONE.	NONE.	
		Spacing	NONE	NONE	NONE	NONE	NONE	NONE	NONE						NONE
		Unsupported Lengths	NONE	NONE	NONE	NONE	NONE	NONE	NONE						NONE
		Scantling* and Sketch	NONE	NONE	NONE	NONE	NONE	NONE	NONE						NONE
Bearing Surface	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE		
HATCH COVERS	{	Material	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	
		Thickness	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	
		How fitted	F&A	F&A	F&A	F&A	F&A	F&A	F&A	F&A	F&A	ATHWP	F&A	ATHWP	
		Bearing Surface	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	
Spacing of Cleats			24"	22"	24"	24"	23"	24"	21"	24"	18"	24"			
Number of Tarpaulins			4	4	4	4	4	4	2	2	2	2			
*Are wood fore and afters steel shod at all bearing surfaces? NONE FITTED.															
Are battens and wedges efficient and in good condition? YES.															
Are tarpaulins in good condition and in accordance with rule requirements? YES.															
Are lashings provided in accordance with rule requirements? YES.															

Particulars of fiddley, funnel and ventilator coamings:—

STEEL COVERS ARE IN POSITION ON FIDDLEY GRATINGS / ~~(BUT ARE IN A BAD CONDITION)~~ to be reviewed.
FIDDLEY AND FUNNEL VENTILATORS IN EFFICIENT CONDITION / ~~EXCEPT PORT STOCKHOLD VENT COATING WHICH~~
ENGINE ROOM SKYLIGHT OF STEEL STRONGLY CONSTRUCTED / ~~REQUIRES TO BE REPAIRED~~ to be repaired

Particulars of Flush Bunker Scuttles:—

THREE SCUTTLES ON BRIDGE DECK, PORT & STARD, OF CAST STEEL FITTED WITH BAYONET JOINTS. (BUT NO CHAINS):
to be fitted.

Particulars of Companionways :—

NONE. ✓

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

VENT ON FICLE DK- 8" DIAR. COMING / 20' x 36" LED TO FORE PEAK STORE.
2 VENTS " " 10" " " 18' x 32" " " CREW'S QTS- UNDER FICLE DK-
" " " 8 1/2 " " 27' x 32" " " "
16 " " FREEBOARD DK- 18" DIAR. " 36' x 40' " " HOLD SPACES.
2 " " BRIDGE DK 10' " 30' x 32' " " DEEP TANK
2 " " " (ACTING AS DERRICK POSTS) 21" DIAR. LED TO DEEP TANK.
2 " " " 10" DIAR. COMING / 30' x 32" LED TO LOWER BUNKER.

VENT ON POOP DK 8" DIAR COAM 18" x 36" LED TO POOP STORE.
1 " " " " 22 " " " 56" x 46" " " TUNNEL (ACTING AS
(TUNNEL ENDS).
5 MUSH. VENTS " " 6" " " 9" LED TO POOP SPACE.
VENTS CONSTRUCTED IN ACCORDANCE WITH RULES
AND CLOSED WITH WOOD PLUGS AND CANVAS COVERS.

Particulars of Air Pipes in exposed positions on freeboard, ^{AND} ~~raised quarter~~, or superstructure decks :—

4 AIR PIPES ON FREEBOARD DK. 22" DIAR. 35' TO LIP, FROM D.B. TANKS.
4 " " " " 22" " 31" " " " D.B. " "
4 " " " " BRIDGE DK. 31" " 26" " " " D.B. " "
1 PIPE " POOP DK. 32" " (6") " " " AFT PEAK TANK.

NO SNIFFING HOLES IN AIR PIPES AND

~~NO CANVAS COVERS OR WOOD PLUGS~~

SOUNDING PIPES - WOOD PLUGS AT PRESENT FITTED, SHOULD BE REPLACED WITH EFFICIENT SCREWED CAPS. ✓

Particulars of Gangway Cargo and Coaling Ports:—

NONE.

Particulars of Scuppers and Sanitary Discharge Pipes —

ALL SANITARY DISCHARGE PIPES FITTED WITH STORM VALVES ABOVE FREEBOARD DECK, EXCEPT ONE IN POOP SPACE, PORT SIDE, WHICH IS 12" BELOW FREEBOARD DECK, AND FITTED WITH STORM VALVE. PIPE SCUPPERS IN WAY OF BRIDGE SPACE FITTED WITH STORM VALVES AT SHIP'S SIDE, 18" BELOW FREEBOARD DECK.

Particulars of Side Scuttles :

of Side Scuttles:

SIDE SCUTTLES TO CREW'S SPACES IN FORECASTLE, ABOVE FREEBOARD DECK, FITTED WITH HINGED DEADLIGHTS.

SIDE SCUTTLES TO POOP CARGO SPACE, ABOVE FREEBOARD DECK, FITTED WITH HINGED DEADLIGHTS. (BUT NOT IN AN EFFICIENT CONDITION)

to be made efficient.

Particulars of Guard Rails :—

POOP DECK - GUARD RAILS 3'-0" HIGH, WITH 2 RODS AND STANCHIONS 4'-3" APART.
BRIDGE DECK - STEEL BULWARK, HEIGHT 3'-5", ONE FREEING PORT, P & S. 1'-7" x 12".
FORECASTLE DECK - GUARD RAILS 3'-3" HIGH WITH 2 RODS AND STANCHIONS 5'-3" APART.

Particulars of Gangways, Lifelines, etc. :—

Suitable provision made for rigging lifelines available for use in any part of the ship which might have to be used by the crew in the regular working of the ship

NONE. to be provided

Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	93'0"	4'0"	26" x 16"	3.	8.62 SQ.FT.	18.679 SQ.FT.
Forward Well	97'7"	4'0"	26" x 16"	2.	5.75 SQ.FT.	20 SQ.FT.

* State position of each freeing port } After Well : — POOP 5'10" x 40'0" x 27'6" x 12'11" BRIDGE — 18" ABOVE DECK.
 (F. and A. position and height above deck edge) } Forward Well : — 50' 24'6" x 27'6" x 4'0" F'CLE — 18" " " .

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such : — AFT. WELL — SHUTTERS AND BARS.
 FORD " — BARS ONLY.

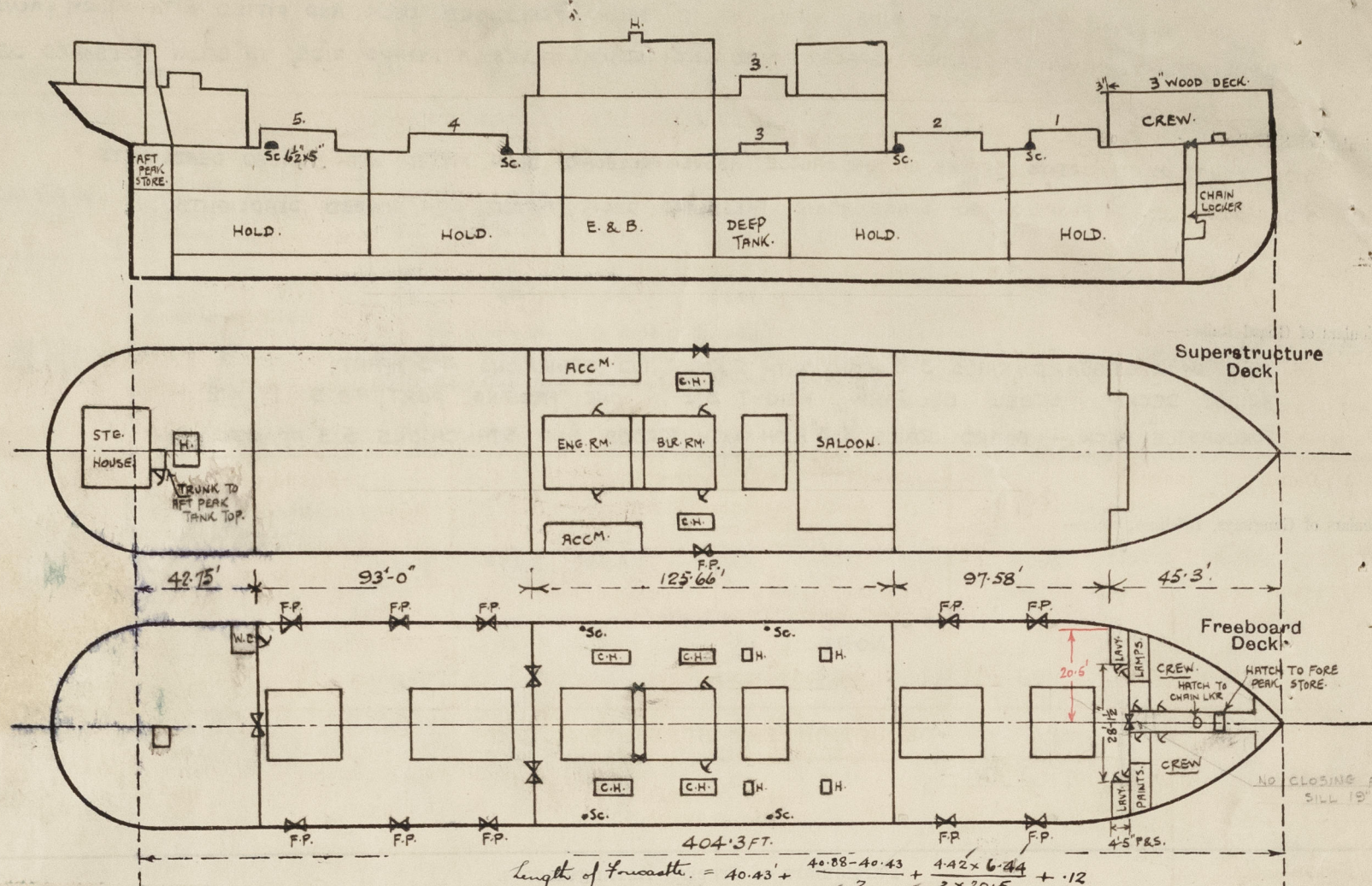
Additional area where sheer is less than standard.

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	35"	30"	5½" x 3½" x 30 L	30"	BKTS AT BOTTOM	5'7½" x 4'8" 4'6" x 2'-0"	19"	8'-0"
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead	35"	30"	5" x 3" x 30 L	31"	NONE	2 @ 5'-0" x 4'-0½"	18"	8'-0"
Bridge, Forward Bulkhead	38"	35"	9" x 3½" x 36 B.A.	28"	BKTS TOP & BOT.	NONE	NONE	8'-0"
Forecastle Bulkhead	35"	30"	4" x 3" x 30"	30"	NONE	5'-0" x 3'-9" 5'-0" x 2'-0"	19"	8'-0"
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Fore- board or Raised Quarter Decks ...								
Exposed Machinery Casings on Super- structure Decks	30"	26"	3" x 3" x 25"	33"	BKTS AT TOP	5'-0" x 2'-0"	24"	7'9"
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances	32"	26"	4" x 3" x 26"	26"	ATTACHED TO BEAM AT TOP BOT. NONE	5'-0" x 2'-0" AND 5'-6" x 4'-0"	15" 18"	8'-0"
Deckhouses on Flush Deck Ships ...								

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

<p>Poop Bulkhead</p> <p>Raised Quarter Deck Bulkhead ...</p> <p>Bridge, After Bulkhead</p> <p>Bridge, Forward Bulkhead</p> <p>Forecastle Bulkhead</p> <p>Exposed Machinery Casings on Fore- board or Raised Quarter Decks</p> <p>Exposed Machinery Casings on Super- structure Decks</p> <p>Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances</p> <p>Deckhouses on Flush Deck Ships ...</p>	<p>STORM BOARDS, 2$\frac{1}{2}$" THICK, FULL HEIGHT, IN RIVETTED CHANNELS. ONE STRONG WOOD HINGED DOOR, PORT</p> <p>STORM BOARDS, 3" THICK, FULL HEIGHT, IN RIVETTED CHANNELS. ✓</p> <p>NO OPENINGS. ✓</p> <p>STRONG WOOD & STEEL HINGED DOORS, EXCEPT DOOR TO CREW'S PASSAGE, WHICH HAS NO CLOSING APPLIANCES. ✓ SILL 19" HIGH</p> <p>2 HINGED STEEL DOORS TO STOKESHOLD. ✓ 2 STRONG HINGED WOOD DOORS TO ENG. ROOM. ✓ 2 HINGED STEEL DOORS TO STOKESHOLD. ✓ 2 HINGED STEEL DOORS AT SADDLEBACK OPENING IN BRIDGE SPACE. ✓</p> <p>LOCK NOT EFFICIENT DOORS AND LOCKS NOT EFFICIENT</p>
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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 shewn on the following sketches:—



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

HATCH ON UPP. DK. TO FORE PEAK STORE.
DIMENSIONS - 3'6" x 4'0"
COAMING - 13"
SIDES & ENDS - .35
COVER - 2 1/2" W.P. WOODEN GRATING WITH LOCKING BAND. NO HATCH CLEATS.

ELLIPTICAL HATCH ON UPP. DK. TO CHAIN LOCKER.
DIMENSIONS - 20" x 15"
COAMING - 3 1/2" x 3 1/2" x .50", FITTED WITH WOOD COVER.

COAL BUNKER HATCH ON FIDDLEY CASING.
DIMENSIONS - 4'0" x 18'0"
COAMING - 10 1/2"
SIDES & ENDS - .30"
STIFFS, BKT. OR STAYS - NONE
COVERS - 2 1/2" W.P. F&A.

BEARING SURFACE - 2 1/2"
SPACING OF CLEATS - 21"
NO. OF TARPULINS - 2.

TRUNK AT AFT END OF STEERING GEAR HOUSE, WITH DOOR LEADING TO AFT PEAK TANK TOP.

HINGED STEEL DOOR, 5'0" x 2'0" WITH 18" SILL, CAPABLE OF BEING MANIPULATED FROM BOTH SIDES.

REQUIREMENTS FOR TIMBER DECK CARGOES.

RULE LXXXII - D.B. TANKS - ~~NO~~ LONGITUDINAL SUBDIVISION, EXCEPT ENG. ROOM D.B. TANK. *11/2" x 1/4" (wood bulk) CG 1/2" x 1/4"*
RULE LXXXIII - BULWARKS - 4'0" HIGH, AND ACCORDING TO RULE LXXXIII. ✓
RULE LXXXVII - STEERING ARRGT'S. - LEADS NOT EXPOSED. (TELE MOTOR ARRGT.) ✓
EFFICIENT PROVISION OF BLOCKS & WIRES FROM WINCH ON POOP DECK. ✓
RULE LXXXVIII - UPRIGHTS - ~~NO~~ SOCKETS ON DECK. ~~NO~~ ARRANGEMENTS FOR LASHING UPRIGHTS. *provided*
RULE LXXXIX - LASHINGS - AS PER RULE. POSITION OF EYEPLATES RIVETTED TO SHEERSTRAKE, SEE SKETCH.

POOP BHD. 9'0" 9'0" 9'6" 27'0" 17'0" 14'2" 11'4" BRIDGE AFT END. BRIDGE FRONT 11'9" 12'4" 14'0" 37'0" 11'9" 8'4" 16'3" FILE AFT BHD.

Additional sockets & eyeplates fitted to comply with Convention requirements

Builder's name and yard number R. DUNCAN & CO. PORT-GLASGOW. No. 330.

Names of sister ships S.S. "CAPE CORNWALL."

Owners LYLE SHIPPING CO. LTD.

Fee £ 13 : 12 : 0.

Received by me



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