

STEEL STEAMER ~~OR~~ MOTORSHIP

E.I JUL 1946

Received at London Office 53546

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YESDate of completion of report 21st June, 1946 Port of HULL No. 53546Survey held at GOOLE Date First Survey 24th September/45 Last Survey 12th June 1946On the (State if Machinery fitted Aft and M/V "CATO" of Single, Twin or Triple Screw)State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) FULL SCANTLING State Type of Erections FORECASTLE & R.Q. DECKTONNAGE under Tonnage Deck ... 574.48 CLASS E 100A1 State if with freeboard as condition of Class No Built at GOOLEDo. of space or spaces between Tonnage Dk. and Upper Dk. ✓ Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1d) 200.00 Launched 4th April, 1946 Yard No. 4442Total 574.48 Breadth (greatest moulded) B 31.25 Builders GOOLE SHIPBUILDING & REPAIRING CO. LTD.Gross Tonnage 939.45 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 13.92 Owners BRISTOL STEAM NAVIGATION CO. LTD.Register Tonnage 496.92 1st Longitudinal Number (L x D) 2764 Managers ✓ (Where necessary to be entered in Reg. Book)REGISTERED DIMENSIONS. FEET Framing Depth "d," at middle of length. See Sec. 3 (1d) 11.6 U.D.K. ✓ Residence BRISTOLh 202.6 Proportions—Depth to Length—Uppermost continuous deck to top of keel 14.366 ✓ Port of Registry BRISTOLh 31.4 Do. Long Bridge to top of keel 10.57 ✓ If surveyed while building, afloat, or in dry dockh 12.05 Draught Moulded 13.62 BUILDING, AFLOAT & IN DRY DOCK

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	22 ✓		Bracket Floors, Frame	ANGLE 5 3 30 ✓	
" " from 1/2 length amidships to Collision bulkhead	22 ✓		" " Reversed Frame	4 3 34 ✓	
" " in peaks	22 ✓		" " Vertical Struts	4 3 34 ✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	30 1/2 x 38 ✓	
Frame Amidships, Angle, <u>E or F</u>	6 3 32 ✓		" " top Angles	DOUBLE 3 3 34 ✓	
" " Extends up to	DECK ✓		" " bottom Angles	3 3 38 ✓	
Reversed Frame Amidships, Angle	— — —		Side Girders, No. each side and thickness	ONE 28 ✓	
" " Extends up to	— — —		Margin Plate depth (excl. of flange) and thickness	27 x 34 ✓	
Depth of Framing Girder	5-6 7 ✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	WELDED ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, <u>E or F</u>	— — —		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	WELDED ✓	
" " Second 'tween Decks, Angle, <u>E or F</u>	— — —		" " Gussets, spacing and scantling abaft 1/4 len. from stem	— — —	
" " Third " " " "	— — —		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	— — —	
" " from 1/2 len. for'd. to 15% len. from Stem	5 3 32 1/3 A. ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	30 1/2 x 29 ✓	
" " in Peaks, Angle <u>F</u>	5 3 36 ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 : 5/4 ✓		Breadth and thickness of Middle Line Strake	40 1/2 x 34 38 IN WAY OF HATCHES ✓	
State if Frame Joggled	YES ✓		Thickness of remainder in Holds	34 1/2 38 ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	YES ✓		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	— — —	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	YES ✓		BEAMS.		
NGLE BOTTOM. IN WAY OF MCHY SPACE ONLY			Uppermost Continuous Deck, amidships in Wells, Angle, <u>E or F</u>	5 3 25 ✓	
Floors, Depth and thickness at mid-line in Holds	— — —		" " in way of Bridge, Angle, <u>E or F</u>	3 1/2 3 32 1/2 BEAMS ✓	
Height of Brackets at side above base line at toe of frame	— — —		Spacing	22 ✓	
Middle Line Keelson, on Floors, Angles, <u>E or F</u>	— — —		R.Q. Second Deck, amidships, Angle, <u>E or F</u>	5 3 25 ✓	
" " Through Plate or Inter-costal Plate	— — —		Spacing	3 1/2 3 32 1/2 BEAMS ✓	
" " Foundation Plate on Floors	— — —		Third Deck, amidships, Angle, <u>E or F</u>	— — —	
" " Flat Plate Keel Angles	— — —		Spacing	— — —	
GIRDERS			Fourth Deck, amidships, Angle, <u>E or F</u>	— — —	
Side Keelsons, No. each side	ONE		Spacing	— — —	
" " thickness of Inter-costal Plate	9/16 ✓		Poop Deck, Angle, <u>E or F</u>	— — —	
" " Bottom Angle	3 3 3/8 ✓		Spacing	— — —	
" " Angles	5 5 5/8 ✓		Bridge Deck, Angle, <u>E or F</u>	4 3 30 ✓	
DOUBLE BOTTOM.			Spacing	22 1/2 30 ✓	
Solid Floors, thickness and spacing	29 : 66 ✓		Forecastle Deck, Angle, <u>E or F</u>	4 3 30 ✓	
" " Are Frame and Reversed Frame joggled?	YES ✓		Spacing	22 ✓	
Bracket Floors, breadth and thickness at middle line	23 x 29 FLANGED ✓				
" " breadth and thickness at margin plate	23 x 29 " ✓				



## PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows .....	- - -		Stringer Plate, breadth and thickness in way of Bridge .....	- - -	
" " in 'tween Decks, Size and Spacing .....	- - -		Thickness of Plating abreast Deck openings in way of Wells .....	- - -	
" " " " " " " "	- - -		Thickness of Plating abreast Deck openings in way of Bridge.....	- - -	
" " in Holds ON 70 FRAME ✓ <i>8x3x3x.38/.50 DOUBLE AT CENTRE LINE CHANNELS ✓</i>			Thickness of Plating within line of openings... .	.30 ✓	
" " " " " " " "			If Sheathed, material and thickness.....	- - -	
Centre Line Bulkhead. Stiffeners and Spacing .....	- - -		Third Deck. Stringer Plate, breadth and thickness.....	- - -	
Plating, thickness of .....	- - -		If Plated, state thickness .....	- - -	
STRINGERS AND DECKS. Uppermost Continuous Deck. Stringer Plate, breadth and thickness in Wells <i>67½ x .50 -.30 ✓ .70 AT 13 BREAK. ✓</i>			Fourth Deck. Stringer Plate, breadth and thickness.....	- - -	
" " " " " " " " in way of Bridge	- - -		If Plated, state thickness.....	- - -	
" Angle in Wells ..... <i>5 5 .50 ✓</i>			Poop Deck. Stringer Plate, breadth and thickness.....	- - -	
Thickness of Plating abreast Deck openings } in way of Wells ..... <i>.70 .50 &amp; .46 ✓</i>			Plating, Sheathing, material and thickness ...	- - -	
Thickness of Plating abreast Deck openings } in way of Bridge.....	- - -		Bridge Deck. Stringer Plate, breadth and thickness.....	.30 ✓	
Thickness of Plating within line of openings... .	.30 ✓		Plating, Sheathing, material and thickness ...	.26 ✓	
If Sheathed, material and thickness.....	- - -		Forecastle Deck. Stringer Plate, breadth and thickness.....	.28 ✓	
R.Q. Second Deck. Stringer Plate, breadth and thickness in Wells <i>65 x .35 -.30 ✓</i>			Plating, Sheathing, material and thickness... .	.28 ✓	
				.50 UNDER WINDLASS ✓	

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED,	EDGES.			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled? <i>No</i> ✓	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.	Diam.	
	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.		Inches.	Inches.		
Flat Plate Keel.....	40	48	46	44		DOUBLE	3/4	6 RIVETS	KEEL	BUTTS WELDED		
" Dblg. (if any)	—	—	—	—		—	—	—	—	—		
Bottom Plating, No. of Strakes <i>TWO</i> .....	A 72 3/4	38	42	34		DOUBLE	3/4	6 RIVETS	DOUBLE 3/4	25/8 LAPPED		
Bilge Plating, No. of Strakes <i>ONE</i> .....	C 68	"	"	"		"	"	"	"	"	"	
Side Plating, No. of Strakes <i>TWO</i> .....	D 51	"	"	34		SINGLE	"	"	"	"	"	
	E 53 1/2	"	48	"								
Upper Deck, Sheer- strake in Wells.....	F 48	62	38	✓		DOUBLE	7/8	5 RIVETS EX FARNET AT BREAK	TREBLE 7/8	3 1/8 AT BREAK	"	
Upper Deck, Sheer- strake in Bridge .....	R.O.K. F 48	42	✓	34		"	3/4	6 RIVETS EX FARNET	DOUBLE AT AFTER END	3/4 25/8	"	
Strake below Sheer- strake in Wells .....	—	—	—	—								
Strake below Sheer- strake in Bridge .....	—	—	—	—								
R.O.K. SHEER STRAKE Poop Side Plating.....	64 1/2	40	✓	34		DOUBLE	7/8	5 RIVETS EX FARNET AT BREAK	TREBLE 7/8	3 1/8	LAPPED	
		60 AT BREAK	✓				3/4	6 RIVETS EX FARNET	DOUBLE 3/4	25/8		
Bridge Side Plating.....	—	—	—	—								
Forecastle Side Plating			30	✓		SINGLE	3/4	"	SINGLE 3/4	25/8	"	

## WATERTIGHT BULKHEADS.

Q.O.T.  
Total No. of W.T. BULKHEADS in Vessel— 4 For record 3BH  
Extending to Upper Deck (Sec. 3 c) ONE TO UDK AND THREE TO  
Deck next below ✓  
As per Rule 3

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar .....		FLAT PLATE.		
STEM .....		ROLLED 6 1/2 x 1 1/2		
STERN FRAME {	Propeller Post .....	6 1/2 x 1 1/2	FABRICATED AND WELDED BY	
{	Rudder ..	"	SHIPBUILDER	
Speed of Vessel .....		NOT EXCEEDING 12 KNOTS		
RUDDER—Type .....		SEMI-BALANCED		
" A x D .....		66 x 27		
" Diam. of head .....		4 5/8		
" Mainpiece at top pintle ..		6 1/8		
" " heel ...		5 1/2		
" how constructed .....		WELDED		
" double or single plates ..		32		
" coupling, vertical or .....		HORIZONTAL		
" horizontal .....				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	BULKH'D, Upper	tween decks				
"	"	Second	O.T. FR 27-35-30	4" ✓	6 1/2" x 3 1/2" x 38 ✓	24" ✓
"	"	Third	" " 30	" ✓	" " ✓	" ✓
"	"	Holds				
COLLISION	"	(in Hold)	W.T. 99-35-30	4" ✓	6 1/2" x 3 1/2" x 40 ✓	24" ✓
AFTER PEAK	"	"	W.T. 6-10-13-65-30	4" ✓	6 1/2" x 3 1/2" x 30 ✓	24" x 25" ✓

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) OPEN HEARTH. ✓

STEEL. PLATES: - APPLEBY - FRIDINGHAM STEEL CO LTD

SECTIONS: - DORMAN, LONG & CO LTD, CARGO FLEET & CO LTD, CONSETT & CO LTD & SKINNINGROVE & CO LTD.

Has the Steel been tested as required by the Rules? YES. ✓







GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

The vessel is similar to M/V INO (see Quell. 2pt. No 93468)

PARTICULARS OF ELECTRIC WELDING (if employed)

Steel frame & structure of welded construction  
Oiltight & Watertight bulkheads, seams & butts welded, stiffeners welded to an  
margin plate welded to floor & shell plating, tank top plating butts & seams,  
fore peak waste plate to bulkhead and tank plate to steel frame welded  
1 Butts of Deck plating welded  
Approved electrodes employed on this work.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book.

1 Butts of Deck plating electrically welded. "Part elec. welded"

Particulars of Drop Test of  
Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials,  
Number of Certificate, Date  
of Test.

1st Bower 13-3-8 : J.H.J. : 7112 : 24/8/45  
2nd " 14-0-6 : A.E.G. : 7676 : 13/7/45  
3rd " 11-0-3 : J.H.J. : 7081 : 31/7/45.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. 133.56 ft., Bridge ☒ ft., Forecastle 16.8 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ☒

Official No. Signal Letters ☒ Extreme Breadth over Belting 31-6 1/4 (Circ. 1611) Over-all Length 209-3 (Circ. 1703)

No. and Material of Decks ONE DECK (STL)

Parts of Bottom of Vessel coated with cement or approved composition CEMENT IN DOUBLE BOTTOM TANKS ☒

Particulars of composition (if fitted) and of approval ☒

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284)  
(Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft, No 2 (26-69 FRAMES)	78.8	104.30	Fore peak tank,	17.95	63.77
Double bottom, under Engines and Boilers,	—	—	After peak tank,	11.55	18.94
Double bottom, if under Engines only,	—	—	Deep tank, aft, O.F. BUNKER	5.50	65.18
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	—	—
Double bottom, forward, No 1 (69-99 FRAMES)	55.0	62.10	Other tanks, if fitted,	—	—
Total length (if continuous) and Capacity	133.8	166.40	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 3490

Date 27.3.45

Dates of Surveys held while building

1945  
Sept 24. Nov. 6. 16. 23. Dec 7. 12-1946  
June 5. 12.  
1946  
Feb. 6. 12. 15. 21. 28. Mar. 27 April 2. 4. 24. 25. 29. May 22

Total No. of Visits 20.