

With or Without Disconnected Erections.

STEEL STEAMER.

Received at London Office **WED. MAR. 21 1923**

Date of completion of report **12.3.23**

State if Report is also sent on the Machinery of the Vessel **Yes**

Survey held at **Glydebank**

Port of **Glasgow** Date, First Survey **24th March 1920** Last Survey **March 8th 1923**

No. **42555**

On the (State if Single, Twin, or Triple Screw)

SS. COCHRANE

Rig **Fun. 24.**

TONNAGE under **6546.53**

CLASS **100 A1.**

FEET.

Master

Year of appointment

(1) As Master in service of owner of present vessel—19
(2) As Master of this vessel—19

Tonnage Deck... **6546.53**

Do. between Tonnage Dk. and 3rd and 4th Dk. **56.66**

Total under Upper Dk. **6546.53**

Do. of Poop **52.16**

Do. of R.Q.Dk. **100.84**

Do. of Forecastle **339.40**

Do. of Houses on Dk. **26.82**

Do. above Crown of **50.81**

Engine Room **4203.22**

Gross Tonnage **293.91**

Less Crew Space **2305.03**

Less above Crown of Engine Room **119.74**

TONNAGE FOR FEES **2305.03**

Less Engine Room **119.74**

Less Navigation Spaces **4484.54**

Breadth (greatest moulded) **59.0**

Depth, at middle of length from top of keel to top of upper deck beams at side **33.93**

Transverse Number **92.93**

Length on deck from fore part of stem to after part of stern post **440.0**

Longitudinal Number **40815**

Depth "d," at middle of length (See Secs. 2 & 13) **19.92**

Proportions—Depth to Length—Upper Deck Beam at side to top of keel **12.97**

" " Long Bridge Deck Beam at side to top of keel **10.31**

Built at **Glydebank**

When built **1921** Launched **28.12.20**

By whom built **John Brown & Co. Ltd.**

Owners **Elder Dempster & Co. Ltd.**

Managers **Liverpool**

Residence **Liverpool**

Port belonging to **Liverpool**

Destined Voyage

If Surveyed while Building **Afloat** & in Dry Dock **Yes**

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH Moulded	Feet.	Inches.	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid	No. of Tiers of Beams
440	0		59	0		Do. do. do. do. Second Dk. Beams	31	1	Two	Two

Dimensions of Ship per Register, Length **440.0** breadth **59.2** depth **31.1** Moulded depth, ft. **42** ins. **8** To Bridge Dk. Round of Upper Dk. Beam, Actual **12** ins.

FRAMING.

NAME, Angles, or	Bars amidships	11x3 1/2x3 1/2 .48	11x3 1/2x3 1/2 .48
o. in peaks		8x3 1/2x .46	8x3 1/2x .46
o. in way of Double Bottoms at Solid Floors...		3 1/2x3 1/2 .44	3 1/2x3 1/2 .44
" " at intermdt. Bkts.		"	"
ing of Frames from centre to centre amidships		27 1/2	27 1/2
" " " from 3/4 }		27	27
length to Collision bulkhead }		27	27
" " " in peaks..		27	27
ERSED FRAME, Angles		3 1/2x3 1/2 .44	3 1/2x3 1/2 .44
o. in way of Double Bottoms at Solid Floors...		"	"
" " at intermdt. Bkts.		"	"
MING, depth of girder		11	11
ORS, depth and thickness of Floor Plate }			
at mid-line for 3/4 length amidships... }			
in way of Engine and Boiler Spaces			
thickness at the ends of vessel			
depth at 3/4 the half breadth, as per Rule ...			
height extended at the Bilges		.42 - .38	.42 - .38
ORS in Cell, Double Bottoms		NO	NO
state if flanged (top & bottom)		27 1/2	27 1/2
Spacing of Solid floors		46x56 = 46	46x56 = 46
TRE GIRDER, in Dbl. bottom, dpth. & thknss.		5x5x60	5x5x60
" " Angles, Top	Single	5x5x60	5x5x60
" " Bottom	Double	5x5x60	5x5x60
" " to Floors	Single	3 1/2x3 1/2 .44	3 1/2x3 1/2 .44
Brackets at intermdt. frmg., wdth & thknss	Double		
E GIRDERS, number on each side & thickness		Two .42 - .38	Two .42 - .38
" state if flanged (top and bottom)		NO	NO
" Angles (top and bottom)		3 1/2x3 1/2 .44	3 1/2x3 1/2 .44
" to Floors		3x3x .42	3x3x .42
GIN PLATE, depth (exclusive of flange) }		38x50	38x50
and thickness... }		4x4x .50	4x4x .50
" Angle to Outside Plating		3 1/2x3 1/2 .44	3 1/2x3 1/2 .44
" Floors		"	"
Brackets at intermdt. frmg., wdth & thknss		46	46
Height of Outside Brackets above at bilge		46x.54	46x.54
ER BOTTOM PLATING, breadth and }		.52E - .58B	.52E - .58B
thickness of Middle Line Strake }		.42 - .38	.42 - .38
" in Engine and Boiler space		8x3x3x .38	8x3x3x .38
" Remainder in Holds		8x3x3x .40	8x3x3x .40
MS, Upper Deck, Single Angle, Bulb }		27 1/2	27 1/2
Angle, Plate, Tee Bulb, or Channel }		8x3 1/2x3 1/2 .54	8x3 1/2x3 1/2 .54
In way of Long Bridge		27 1/2	27 1/2
Spacing			
MS, Second Deck, Single Angle, Bulb }			
Angle, Plate, Tee Bulb, or Channel }			
Spacing			
MS, Third and Fourth Deck, Single Angle, }			
Bulb Angle, Plate, Tee Bulb, or Channel }			
Angles on upper edge			
Spacing			
MS, Poop Deck, Angle, Bulb Angle, Plate, }		8x3x.42	8x3x.42
Tee Bulb, or Channel		"	"
Angles on upper edge		27 1/2	27 1/2
Spacing		8x3x3x .38	8x3x3x .38
MS, Bridge Deck, Angle, Bulb Angle, Plate, }		"	"
Tee Bulb, or Channel		27 1/2	27 1/2
Angles on upper edge		8x3x3x .38	8x3x3x .38
Spacing		"	"
MS, Forecastle Deck, Angle, Bulb Angle, }		27 1/2	27 1/2
Plate, Tee Bulb, or Channel		8x3x3x .38	8x3x3x .38
Angles on upper edge		"	"
Spacing		27 1/2	27 1/2

[illegible]

EQUIPMENT No. 43133				LETTER 37				ANCHORS.				TONNAGE U. DK. OR PLATING No. FOR TRAWLERS					
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 31.			Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.				lbs.
84584	1st Bower ...	74	0	21	✓	✓	✓	56	0	0	0	42	2	0	Halls & Shedd	Hungley & Co.	NT of 11.1.21 H. E. ...
84580	2nd „ ...	42	2	0	✓	✓	✓	55	0	0	0	42	2	0	„	„	„ 6.1.21 „
84579	3rd „ ...	62	0	10	✓	✓	✓	49	11	2	0	62	0	0	„	„	„ 6.1.21 „
	4th „ ...																
	Collective weight.	208	3	3								207	0	0			
84694	Stream	21	0	4	✓	✓	✓	2	10	2	14	20	2	0	Spedman & Co.	„	„ 8.3.21 „
84701	Kedge.....	9	0	3	✓	✓	✓	2	1	7	11	9	0	0	„	„	„ 4.3.21 „

IF Patent state Name of Patentee

IF Stockless state Mechanical Tests.

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

1st Bower 48.2.10 W.C. 3115 6.11.20
2nd " 47.1.16 W.S.B. 3102 17.9.20
3rd " 38.2.27 W.C. 3122 28.10.20
4th "

CHAIN CABLES.

HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.		Test per Certificate.	WEIGHT OF CHAIN CABLE.		Length and size per Table 31.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and size supplied.		Breaking Test of Steel Wire Towline.	Length and size per Table 31.	
	Length.	Diam.		Supplied.	Per Rule.	Length.					Length.	Cir.		Length.	Cir.
69526	150	2 1/2	100	100	100	150	Steel	Hugley & Co.	19.1.21 H. Brown	WIRE	130	3 1/2	88	150	3 1/2
69527	150	"	100	100	100	150	Steel	"	28.1.21	"	1-90	3 1/2	26	2-100	8"
											3-90	2 1/2	12	2-100	8"
											4-100	8"	12	2-100	8"
Iron Stream Chain or Steel Wire	120	5"	✓	✓	✓	120	5"								

Boats 4 life & 2 others
Pumps, Number 3
Windlass is Wilson (Steam)
Engine Room Skylights.—How constructed? Steel
Coal Bunker Openings.—How constructed? Plated & dry
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 6 each side
Ceiling in Holds, thickness and material. 2 1/2" main hatch
Cargo Hatchways.—How formed? Plated & angle
State size No. 1 Hatch (Forward) 24' 9" x 16' 0" **No. 2 Hatch** 24' 6" x 16' 0" **No. 3 Hatch** 13' 9" x 16' 0" **No. 4 Hatch** 30' 7" x 16' 0"
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch No 1 & 2 = 5. No 3 = 3. No 4 = 3
No. of Breasthooks 5 **No. of Crutches** ✓
Bulwarks, height above deck and description 4' 4" x 30' slays 2 1/2" dia 4' 0" Main Rail, material and size 8" 3A Lysac section
The foregoing is a correct description. John Brown & Company, Limited.
Builder's Signature (here only) J. Brown
Surveyor's Signature Stanley Rowntree
Surveyor to Lloyd's Register of Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case)

17.1.19. E. 26.1.20. E 32.12.20 17.2.21.

Workmanship. Are the butts of plating planed or otherwise fitted? Yes

Is the riveted work properly closed? Yes

Are the liners between the frames and plates solid single pieces? Yes

to plate, &c., conform well to each other? Yes

from the faying surfaces? Yes

Do any rivets break into or through the seams or butts of the plating? a few

Are the butts of Plating, Stringers, &c., properly shifted and strapped? or lapped Yes

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Yes

State results of tests. Satisfactory

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes

State results of tests. Satisfactory

General Remarks (State quality of workmanship, &c.)

This vessel has been built in accordance with the approved plans, Secretary's letters & generally in accordance with the rules for the class contemplated. — Sister vessel to s/s "Calgary" No 40871
The workmanship is good

No Cargo battens are fitted in the Bridge space —
The work on this vessel has been suspended since October 1921 & has now been completed. — The bottom was examined in dry dock on May 30th last found to be in good condition. — In the circumstances the owner ask that the date of build may count from the present month —
This is a sister vessel to the s/s "Calgary" No. 40871 in 12 approved plans & 6 forging & casting reports enclosed for reference. Please return these for use during the building of sister vessels now in hand.

The Surveyor should state the Number of Report and Name of any Sister Vessel.
Plans to be forwarded with F.E. Report showing vessel as built.

The amount of Entry Fee £ 10 : 0 : 0
Special Survey Fee ... 380 : 1 : 6
FEEASARD ... £ 13 : 0 : 0

Fees applied for, 19.3.1923.
Received by me, 26/3

H.M. Certificate to be sent to Glasgow Date of issue 22/3/23

State whether the Vessel has been built under Special Survey Yes
I am of opinion this Vessel should be Classed 100 A1.
With, or without Freeboard, as condition of Class Without

Stanley Rowntree
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 MAR 1923
Character assigned 100 A1.

3.23. Lloyd's A.S.C.P.
+ LMC 3.23. 72.
Date of Build 3.23.

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 24.12 ft., R.Q.D. — ft., Bridge 187.94 ft., Forecastle 48.87 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated —

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as should appear in the Register Book) 2 DKS STEEL. State if Machinery is fitted aft no Official No. ; Signal Letters Outside Paint — How are the surfaces preserved from oxidation? Inside Cement of paint / Cellular

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors.

Where Fitted.	Length.		Water Capacity.	Where Fitted.	Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft, (Sample 6.4 x 8	135	479	Fore peak tank,		25	142	
Double bottom, under Engines and Boilers,			After peak tank,		19	40	
Double bottom, if under Engines only, 20.5	29.25	131	Deep tank, aft,				
Double bottom, if under Boilers only, 20.4 (24)	38.25	176	Deep tank, forward,				
Double bottom, forward, 127.3	175.00	689	Other tanks, if fitted,			182	
	Total capacity of double bottom	1475	(If necessary, furnish further information by sketch.)				

* The wells are not to be included in the lengths of the tanks. State whether the above have been tested as required by the Rules Yes

Order for Special Survey No. 5363 Date 31 27.3.20 No. 597 — in builder's yard. DATES of Surveys held while building 1920. Mar. 24. 29. April 7. 14. 19. 26. May 10. 19. 26. Jan 8. 18. 23. July 12. Aug. 8. 24. Sept. 2. 9. 16. Oct. 1. 12. 19. 20. 26. 29. Nov. 2. 9. 10. 15. 17. 23. 26. Dec. 1. 7. 9. 14. 17. 19. 22. 23. 28. 1921. Jan. 18. 26. Feb. 7. 21. 28. June. 1. 8. 9. 17. 21. April 11. 18. Sep. 9. Oct. 4. 11. 1922 May 20. 1923. Annual 8th. Total No. of Visits 54

Surveyor's Signature Stanley Howarth