

STEEL STEAMER or MOTORSHIP.

Received at London Office APR 18 1941

State if Report has been sent on the Freeboard of the Vessel YES

State if Report is sent on the Machinery of the Vessel YES

BORTHWICK

No. 63686

Date of completion of report

14 : 14 : 14

Port of GLASGOW.

Survey held at GLASGOW.

Date First Survey

12th July 1940Last Survey 2nd April 1941

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

SINGLE SCREW "EMPIRE GAT"

(MACHINERY AFT)

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

FULL SCANTLING.

State Type of Erections Focle & R. Qst Dst.

TONNAGE under Tonnage Deck... 585.88

CLASS 100A1

State if with freeboard as condition of Class

No

Built at GLASGOW

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Total

585.88

Gross Tonnage

870.81

Register Tonnage

465.19

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a)

L 198.5

Breadth (greatest moulded)

B 33.0

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 13.83

1st Longitudinal Number (L x D) = 2745.26

2nd Numeral L x (B + D) = 9295.76

Framing Depth "d," at middle of length. See Sec. 3 (1d)

14.35

Proportions—Depth to Length—Uppermost continuous deck to top of keel

11.29

Do. Long Bridge to top of keel

13.47

Draught Moulded

Launched 30th November 1940 Yard No. 1088 P.Builders A & J INGLIS L^{td}

HIS MAJESTY REPRESENTED BY THE MINISTER OF SHIPPING

Managers J & A. GARDNER & Co., L^{td}.

(Where necessary to be entered in Reg. Book.)

Residence 228 CLYDE STREET, GLASGOW, C^y.

Port of Registry GLASGOW.

If surveyed while building, afloat, or in dry dock

BUILDING & AFLOAT

REGISTERED DIMENSIONS.

Length 203.0
Breadth 33.15
Depth 11.75

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	✓
FRAME 82			" " Reversed Frame	✓
" " from 1 length amidships to Collision bulkhead	20" ✓		" " Vertical Struts	✓
" " in peaks	22" ✓		Centre Girder, depth and thickness amidships	33½ "38 ✓
AFT PEAK	20" ✓		" " top Angles	3 3 "34 ✓
FORE PEAK			" " bottom Angles	3 3 "38 ✓
E FRAMING.			Side Girders, No. each side and thickness	1 2 "28 ✓
Frame Amidships, Angle, E or I	5 3 "32 ✓		Margin Plate depth (excl. of flange) and thickness	30½ "33 ✓
" " Extends up to	UPPER DB	✓	" " Vertical Angle to Tank side Bracket abaft ½ len. from stem	3 3 "38 ✓
Reversed Frame Amidships, Angle B, A	6 3 "312 ✓		" " Vertical Angle to Tank side Bracket from forward ½ len. from stem to Panting Area	3 3 "38 ✓
" " Extends up to	R. Q st DECK.	✓	" " Gussets, spacing and scantling abaft ½ len. from stem	"34 EVERY 2 ND FR. ✓
Depth of Framing Girder	✓		" " Gussets, spacing and scantling from forward ½ len. from stem to Panting Area	"34 " " " ✓
Frames in Uppermost Continuous 'tween Decks, Angle, E or I	✓		Tank Side Brackets, height above base line at toe of Frame and thickness	36 "32 ✓
" " Second 'tween Decks, Angle, E or I	✓		INNER BOTTOM PLATING.	
" " Third " " " "	✓		Breadth and thickness of Middle Line Strake	40½ "50 ✓
" " from 1 len. for'd. to 15% len. from Stem	5 3 "32 ✓		Thickness of remainder in Holds	"50 ✓
" " in Peaks, Angle or I	5 3 "312 ✓		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?	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	¾ R 2 54" ✓		BEAMS.	
State if Frame Joggled	YES. ✓		Uppermost Continuous Deck, amidships	6 3 "35 ✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	AS APP ^d ✓		" " in Wells, Angle, E or I	5 3 "312 ✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	AS APP ^d ✓		" " in way of Bridge, Angle, E or I	EVERY FRAME ✓
ANGLE BOTTOM.			Spacing	
Floors, Depth and thickness at mid-line in Holds	ENGINE SEATING & FLOORS ETC.		Second Deck, amidships, Angle, E or I	✓
Height of Brackets at side above base line at toe of frame	IN ENGINE SPACE		Spacing	✓
Middle Line Keelson, on Floors, Angles, E or I	AS PER APP ^d		Third Deck, amidships, Angle, E or I	✓
" " Through Plate or Intercoastal Plate	PLAN.		Spacing	✓
" " Foundation Plate on Floors			Fourth Deck, amidships, Angle, E or I	✓
" " Flat Plate Keel Angles			Spacing	✓
Side Keelsons, No. each side			R. QUARTER	
" " thickness of Intercoastal Plate			Peep Deck, Angle, E or I	6 3 "35 ✓
" " Angles			CARLINGS	5 3 "312 ANG. ✓
DOUBLE BOTTOM. IN WAY OF CARGO HOLDS			Spacing	EVERY FRAME ✓
Solid Floors, thickness and spacing	"29 EVERY FRAME ✓		Bridge Deck, Angle, E or I	✓
" " Are Frame and Reversed Frame joggled?	YES. ✓		Spacing	✓
Bracket Floors, breadth and thickness at middle line	✓		Forecastle Deck, Angle, E or I	6 3 "42 ✓
" " breadth and thickness at margin plate	✓		Spacing	5 3 "40 ✓

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.....	1 Row			Stringer Plate, breadth and thickness in way of Bridge	✓		
„ in 'tween Decks, Size and Spacing.....	DEEP BRACKETS			Thickness of Plating abreast Deck openings in way of Wells	✓		
„ „ „ „ „	AT HATCH SIDES		✓	Thickness of Plating abreast Deck openings in way of Bridge	✓		
„ in Holds „ „	AS APPROVED		✓	Thickness of Plating within line of openings...	✓		
„ „ „ „ „				If Sheathed, material and thickness	✓		
Centre Line Bulkhead.				Third Deck.			
Stiffeners and Spacing.....	✓			Stringer Plate, breadth and thickness.....	✓		
Plating, thickness of	✓			If Plated, state thickness.....	✓		
STRINGERS AND DECKS.				Fourth Deck.			
Uppermost Continuous Deck.				Stringer Plate, breadth and thickness.....	✓		
Stringer Plate, breadth and thickness in Wells	66	54	✓	If Plated, state thickness	✓		
„ „ „ „ in way of Bridge				R. QUARTER.			
„ Angle in Wells	5	5	54 ✓	Poop Deck.			
Thickness of Plating abreast Deck openings in way of Wells	STRINGER PLATE FULL WIDTH ✓			Stringer Plate, breadth and thickness	64	38	✓
Thickness of Plating abreast Deck openings in way of Bridge	✓			Plating, Sheathing, material and thickness ...	31 BETWEEN OPENINGS ✓		
Thickness of Plating within line of openings...	30	✓	✓	Bridge Deck.			
If Sheathed, material and thickness	✓			Stringer Plate, breadth and thickness.....	✓		
Second Deck.				Plating, Sheathing, material and thickness ...	✓		
Stringer Plate, breadth and thickness in Wells...	✓			Forecastle Deck.			
				Stringer Plate, breadth and thickness.....		34	✓
				Plating, Sheathing, material and thickness ...		34	✓
					UNDER WINDLASS		50 ✓

SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	UPPER EDGES. State if jogged? No.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS. Diam. Spacing cr. to cr.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.	Inches.	Inches.	
FLAT PLATE KEEL	40	57	60	57	47 - 43	DOUBLE	3/4 3 1/4	3R	3/4 2 1/8		SINGLE STRAP INSIDE
„ DECK (if any)											
BOTTOM PLATING, No. of Strakes		37	33	33		DOUBLE	3/4 3 1/4	2R	3/4 2 1/8		LAPPED
BILGE PLATING, No. of Strakes		37	33	33		"	" "	"	" "		"
SIDE PLATING, No. of Strakes		37	33	33		SINGLE	" "	"	" "		"
UPPER DECK, Sheer-strake in Wells	48	58	33		45			3R TO 2R	7/8 3 1/4	3 1/2 2 1/8	
UPPER DECK, Sheer-strake in Bridge ...	44	47		33	42 1/2			3R TO 2R	3/4 2 1/8		
STRAKE BELOW Sheer-strake in Wells	44	48	33		45	DOUBLE	3/4 3 1/4	3R TO 2R	" "		"
STRAKE BELOW Sheer-strake in Bridge ...	48	42		33	45	SINGLE	" "	3R TO 2R	" "		"
POOP SIDE PLATING											
BRIDGE SIDE PLATING											
FORECASTLE SIDE PLATING			34			SINGLE	" 3	1R	3/4 2 1/8		"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	5
Extending to Upper Deck (Sec. 3 c)	5
„ Deck next below	✓
As per Rule	5

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD , Upper 'tween decks					
„ „ Second „					
„ „ Third „					
„ „ Holds		40-26	7 x 3 x 34	8-A	25 1/2 30
COLLISION „ (in Hold)		40-31	7 x 3 x 46	8-A	24 N.T. FLAT
AFTER PEAK „ „		40-31/2	7 x 3 x 34	8-A	24 N.T. FLAT

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL , Bar	ROLLED STEEL.	7 x 1 1/2	✓	
STEM				
STERN FRAME { Propeller Post	FORGING	6 1/2 x 4	T.S. FOSTER	
{ Rudder „ (Top)	"	0°	SONS	
Speed of Vessel	10 K			
RUDDER —Type	SEMI-BALANCED			
„ A x D				
„ Diam. of head	FORGING	5 5/8	T.S. FOSTER	Rule 53
„ Mainpiece at top pintle	"	6 1/4	SONS	
„ „ heel ...	"	4 1/2	1°	
„ how constructed	BUILT FORGING			
„ double or single plate coupling, vertical or horizontal	30 DOUBLE PLATE			
	HORIZONTAL			

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

STEEL.

Colville & Co.

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

+80 for additional erections fitted 1/46
see Alexandria Report 3460.

EQUIPMENT No 10130 ✓										LETTER L ✓		ANCHORS.			
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
26514	1st Bower ...	21	1	21	STOCKLESS			22	0	0	0	} 60½ ✓	BYERS	NOT STATED	Low WALKER 5/12/40
26513	2nd "	21	1	14	"			21	18	0	14		0°	D°	A. GREEN.
	3rd "	EMERG. 0.111011011											D°	4/12/40	
	Collective weight.	42	3	7								60½ ✓			
53135	Stream	5	3	22	1	2	6	8	5	0	0	5¾ ✓	Test particulars L.		

CHAIN CABLES.										HAWERS AND WARPS.															
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.							
	Length.	Diam.	State- tory.	Break- ing.	Supplied.		Per Rule.		Length.	Diam.					Length.	Cir.		Length.	Cir.						
14807	Fathoms.	Ins.	✓	✓	✓	✓	✓	✓	✓	✓	✓	NOT STATED.	NETHERTON. 30/11/40 J. F. RELF.	TOWLINE...	Fathoms.	Ins.	✓	✓	✓	✓	Fathoms.	Ins.	✓	✓	
	180	1 3/8	340	510	176-2-6	203	210	1 1/8	STUD LINK						90	3"	18.6	90	3"						
	30 fms short on a/c EMERGENCY																								
on Stream	60	3 3/4	✓	✓						✓	✓														
Chain or Steel Wire																									

Steering Gear, Type (Power $\frac{2}{3}$ hand) ELECTRIC BY T. REID & SONS, PRISLEY. Alternative Means of Steering RELIEVING TACKLE TO CAPSTAN. HAND GEAR. & ALSO BY

Steering Chains (Size and Test) TELE MOTOR GEAR. Windlass ELECTRIC BY T. REID & SONS, PRISLEY Boats 1 LIFEBOAT & 1 MOTOR LIFEBOAT.

Ceiling in Holds, thickness and material NONE Cargo Battens, thickness, material and spacing NONE.

Cargo Hatchways. (Upper Deck) STEEL CORRUGATIONS & ANGLES. Thickness of Hatches 2 1/2 SOLID WOOD COVERS.

Size of Hatchways No. 1 (Fwd.) 40'-8" x 22'-0" No. 2 45'-10" x 22'-0" No. 3 45'-10" x 22'-0" No. 4 45'-10" x 22'-0" No. 5 45'-10" x 22'-0" No. 6 45'-10" x 22'-0"

Number of Shifting Beams 7 WEBS ; 7 WEBS

Builder's Signature A. & J. INGLIS LIMITED
W. S. Milne Manager

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel MOTORSHIP.

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo No The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

This vessel has been built in accordance with the Approved Plans, the Secretary's letters of various dates & in general conformity with the Society's Rules for the class contemplated. The workmanship and materials are good.

The double bottom tanks; the fore peak tank & tank abaft same; the after peak tank & oil fuel tank were tested as required by the Rules & found satisfactory.

Oil as fuel is carried in tween deck at after end of Engine Room, Flash Point above 150° F.H.T. & Sec 20 of the Rules complied with where applicable.

Weather Decks & H.T. Bulkheads were hose tested & found satisfactory.

Freeboard verified & marks cut in.

Windlass & Steering Gear were tried under working conditions & found satisfactory.

Notes: Frames punched for large battens, but no battens fitted. Cleats supplied.

Anchors & Cables to war emergency requirements.

The amount of Entry Fee £ 4 : 0 : 0 Fees applied for, 16 APR 1941

Special Survey Fee.... £ 87 : 2 : 0 Received by me, _____

FREEBOARD. Travelling Expenses, if any £ 8 : 0 : 0 SPECIFICATION. £ 21 : 15 : 6

I am of opinion the Vessel should be Classed 100 A1

State whether the Vessel has been built under Special Survey YES Signature R. Dunsmuir

Certificate to be sent to GLASGOW Date of issue 16/4/41 new book issued 6/4/42.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 16 APR 1941

Character assigned 1- 100 A1

Lloyds A & CD

Note: Equip & Cgo. bins.

4.41

4.41 subject

FRI. 31 OCT 1941

4.41 subject

note

0229 2/2

Lloyd's Register Foundation

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.)

List of Plans.

- | | |
|-----------------------------------|-------------------------------------|
| (1) Midship Section | Midship Section (as built). |
| (2) Profile & Decks. | |
| (3) Sternframe & Rudder | Forgings & Castings. |
| (4) Bulkheads | Rudder Stock, Rudder Frame & Tiller |
| (5) Engine Seating | Sternframe. |
| (6) Ballast Tanks. | |
| (7) Pumping Arrangements | |
| (8) General Arrangement - Profile | |
| (9) " " - Decks. | |

PARTICULARS OF ELECTRIC WELDING (if employed) *Kind details only.*

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book *"Well Deck". "Machinery Aft". "Oil Engine". "Cruiser Stern". "Lloyd A & C.P.". "15E".*

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	WEIGHT HEAD & PIN. 13 - 2 - 21	SURV INIT ^s J.D.	CERT N ^o 3072	DATE OF TEST. 6.7.40
	2nd "	14 - 0 - 7	J.D.	3069	6.7.40
	3rd "				

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. *121'0"* ft., Bridge ☒ ft., Forecastle *31'5"* ft.,
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. *168674* Signal Letters *105* Extreme Breadth over ^{RUBBERS.} *33'-3 1/8"* Over-all Length *211'-0"*
(Circ. 1611) (Circ. 1705)

Parts of Bottom of Vessel coated with cement or approved composition *PORTLAND CEMENT IN DOUBLE BOTTOMS & IN PEAKS.*

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. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	15.0	47
Double bottom, under Engines and Boilers,			After peak tank,	7.0	25
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward, (AFT FORE PEAK).	11.67	44
Double bottom, forward,	120.5	208	Other tanks, if fitted,		
Total length (if continuous) and Capacity	120.5	208	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. *6509*

Date *1.3.40*

Dates of Surveys held while building

1940 July: 12.19.25 Sep: 3.6.11.17 Oct: 2.17.28 Nov: 7.12.14.15.20.26.27.28.29.30 Dec: 4.5
10.17.24.25 (1941) Jan: 7.15.16.23.28 Feb: 7.11.14.17.24.26.27.28 Mar: 3.5.10.12.19.20.24.26
28.31 Apr: 1.2

Lloyd's Register Foundation

Total No. of Visits *51*