

Rpt. 1
RETAIN
SEP 1943

STEEL STEAMER OR MOTORSHIP.

Received at London Office 2 SEP 1943

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.

Date of completion of report 19th August 1943 Port of Greenock No. 22718

Survey held at Port Glasgow Date First Survey 2nd July 1942 Last Survey 19th August 1943

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Sing. A. S. "EMPIRE DARING" Motor Ship

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Comp. Super. without tonnage openings State Type of Erections Breadth

TONNAGE under Tonnage Deck ... 6601.27 CLASS 100 A1 State if with freeboard as condition of Class YES. Built at Port Glasgow

Do. 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 (1a) 42.5 Launched 29th Jan 1942 Yard No. 159

Total 6601.27 Breadth (greatest moulded) 56 Builders W. Hamilton & Co. Ltd.

Gross Tonnage 7058.72 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 36.83 Owners Ministry of War Transport

Register Tonnage 4800.73 1st Longitudinal Number (L x D) 15192 Managers John Morrison & Son (When necessary to be entered in Reg. Book)

REGISTERED DIMENSIONS. FEET Residence Newcastle-on-Tyne

Length 422.4 Framing Depth "d," at middle of length. See Sec. 3 (1d) 23.92 Port of Registry Greenock

Breadth 56.2 Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.55 If surveyed while building, afloat, or in dry dock

Depth 36.25 Draught Moulded 26.12 While Building & afloat.

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.....	31	✓	Bracket Floors, Frame	6 3/4	✓
" " from 1/2 length amidships to Collision bulkhead.....	27	✓	" " Reversed Frame.....	6 3/4	✓
" " in peaks	24	✓	" " Vertical Struts	10 6 3/4	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	4 1/2	✓
Frame Amidships, Angle, E or F	12 3/4	✓	" " top Angles	3 1/2	✓
" " Extends up to.....	2 nd DECK	✓	" " bottom Angles.....	4	✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness.....	1 @	✓
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	4 1/2	✓
Depth of Framing Girder.....	12 B.P.	✓	" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	6 1/2	✓
Frames in Uppermost Continuous Decks, Angle, E or F	6 3/4	✓	" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	6 1/2	✓
" " Second 'tween Decks, Angle, E or F	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	42 EVERY FRAME!	✓
" " Third	✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	42 CONTINUOUS PLATE!	✓
" " from 1/2 len. for'd. to 15% len. from Stem	15 1/2	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	77	✓
" " in Peaks, Angle or F	8 3/4	✓	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 @ 6 1/2	✓	Breadth and thickness of Middle Line Strake...	8 1/2	✓
State if Frame Joggled... <u>YES. EXCEPT AT ENDS OF VESSEL.</u>			Thickness of remainder in Holds	4 1/2	✓
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?.....	YES.	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	YES.		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in		
Floors, Depth and thickness at mid-line in Holds.....	✓		Wells, Angle, E or F	10 3/4	✓
Height of Brackets at side above base line at toe of frame.....	✓		" " in way of Bridge, Angle, E or F CASING.....	8 3/4	✓
Middle Line Keelson, on Floors, Angles, E or F	✓		Spacing	31	✓
" " Through Plate or Inter-costal Plate	✓		Second Deck, amidships, Angle, E or F	12 3/4	✓
" " Foundation Plate on Floors	✓		" " IN WAY OF CASING.....	9 3	✓
" " Flat Plate Keel Angles	✓		Spacing	31	✓
Side Keelsons, No. each side.....	✓		Third Deck, amidships, Angle, E or F	✓	
" " thickness of Inter-costal Plate.....	✓		Spacing.....	✓	
" " Angles	✓		Fourth Deck, amidships, Angle, E or F	✓	
DOUBLE BOTTOM.			Spacing.....	✓	
Solid Floors, thickness and spacing	42 @ 93	✓	Poop Deck, Angle, E or F	✓	
" " Are Frame and Reversed Frame joggled?	YES.		Spacing.....	✓	
Bracket Floors, breadth and thickness at middle line	32 1/4	✓	Bridge Deck, Angle, E or F	✓	
" " breadth and thickness at margin plate.....	32 1/4	✓	Spacing.....	✓	
			Forecastle Deck, Angle, E or F	8 3	✓
			Spacing.....	27	✓

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	CENTRE LINE AND				Stringer Plate, breadth and thickness in way of Bridge		✓		
	WITH REINFORCED				Thickness of Plating abreast Deck openings in way of Wells		✓	.35	
	MATCH SIDE GRADERS				Thickness of Plating abreast Deck openings in way of Bridge		✓		
	8 MATCH END BEAMS				Thickness of Plating within line of openings		✓	.34	
	AS APPROVED.				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					If Plated, state thickness		✓		
" " " " in way of Bridge					Poop Deck.				
" Angle in Wells					Stringer Plate, breadth and thickness		✓		
Thickness of Plating abreast Deck openings in way of Wells					Plating, Sheathing, material and thickness		✓		
Thickness of Plating abreast Deck openings in way of Bridge					Bridge Deck.				
Thickness of Plating within line of openings					Stringer Plate, breadth and thickness		✓		
If Sheathed, material and thickness					Plating, Sheathing, material and thickness		✓		
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells					Stringer Plate, breadth and thickness		✓	.36	
					Plating, Sheathing, material and thickness		✓	.32	

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? <i>NO.</i>	SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.		Inches.	Inches.			
Flat Plate Keel.....	52	.78	.68	.68	<i>3 strakes shell plating with steel increased to .69 forward of 1/2 deck. Side shell plating forward increased to .57 in line of side stringers.</i>	DOUBLE.	7/8	3 4/9	4-3	1	4	LAPPED.	
„ Dblg. (if any)													
Bottom Plating, No. of Strakes4.....	20	.60											
	20	.65	.50	.52		DOUBLE.	7/8	3 4/9	4-3	7/8	3 1/2	LAPPED.	
Bilge Plating, No. of Strakes1.....		.63	.50	.53		"	"	"	"	"	"	"	
Side Plating, No. of Strakes4.....		.62	.46	.46		"	"	"	3	"	3 1/2	"	
Upper Deck, Sheer-strake in Wells.....	58	.69	.50	.46		"	"	"	4-3	"	3 1/2	"	
Upper Deck, Sheer-strake in Bridge ...													
Strake below Sheer-strake in Wells.....	58	.64	.46	.46		DOUBLE.	7/8	3 4/9	4-3	7/8	3 1/2	LAPPED.	
Strake below Sheer-strake in Bridge ...													
Poop Side Plating.....													
Bridge Side Plating.....													
Forecastle Side Plating			.40			SINGLE.	7/8	3	1.	7/8	3	LAPPED.	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	7.
Extending to Upper Deck (Sec. 3 c)	1. (5 DIV. HANDS IN TW. AK.)
" Deck next below	6
As per Rule	7.

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	WARRER	CONTRA 60/10		
STEM	INTERM. LAYERS	C. STL. SHAPED STL. C. OF SCOT. ROLLED 10 1/2 2 1/2		
STERN FRAME	Propeller Post	CAST SHAPED W. SCOT. MORE		
	Rudder	STEEL PLAN.		
Speed of Vessel		10 1/2 KNOTS.		
RUDDER—Type		AQUA. PLATE STEAM LINER.		
" A x D.		570.		
" Diam. of head		FORG 12" W. BARDHARE.		
" Mainpiece at top pintle		CAST SHAPED W. BARDHARE.		
" "heel		STEEL AS PER		
" how constructed		FRAME PLAN.		
" double or single plate coupling, vertical or horizontal		VERTICAL		

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks	.26	ANG. 5 x 3 1/2	10		✓
" " Second					✓
" " Third					✓
" (95) " Holds	.39/26	B.A. 12 x 3 1/2	15	30	✓
COLLISION " (in Hold)	.54/22	B.A. 12 x 3 1/2	24	24	✓
AFTER PEAK "	.48/20	B.A. 7 x 3 1/2	24	24	✓

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture).	OPEN HEARTH.
	Steel Company of Scotland Ltd., Glasgow & Co., Dornoch & Co. Ltd.	
	Has the Steel been tested as required by the Rules?	Yes.

Reg. 1.

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No. 4

To the

EQUIPMENT No. 10086										LETTER a+				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.					
54464	1st Bower	68	0	9	52	12	2	0	✓	68	QUICK GRIP	J. GREEN & CO. LONDON	C.H. 10.9.41 PAUL			
55017	2nd "	69	3	16	"	"	"	58	15	0	0	✓	68	"	NOT STATED	C.H. 17.6.42 PAUL
	3rd "												58 1/2			
	Collective weight	137	3	25									194 1/2			
54581	Stream	18	3	18	1	3	10	19	15	1	7	✓	19	ORDINARY F.W. 3	NOT STATED	C.H. 16.12.41 PAUL

CHAIN CABLES.										HAWSERS 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.		
	Fathoms.	Diam.		Supplied.	Per Rule.	Supplied.	Per Rule.	Fathoms.	Diam.					Fathoms.	Ins.		Fathoms.	Ins.	
2168	270	2	✓	599.0.24				270	2	STOP LINK	J. TAYLOR		TOWLINE	120	1/2	44.6	120	1/2	
2169	500	2	✓	3.0.24	ordinary			270	2	TAPE	"		HAWSERS & WARPS	20.90	1/2	15.2	20.90	1/2	
														20.75	3/4	25.7	20.90	1/2	
														90	1/2	44.6			
														20.75	1/2	15.2			
Stream	90	5	✓	52.8				90	5	6.6.5.4	(MARTIN BLACK & CO. LONDON)			40.90	7	MANILA			

Steering Gear, Type (Power or hand) STEAM, BY J. HASTIE & CO. LONDON Alternative Means of Steering BLACK & TACKLE OPERATED FROM AFTER WINCH.

Steering Chains (Size and Test) GEAR SET, TELE MOTOR CONTROL. Windlass STEAM, BY THE CLYDE CRANE & ENG. CO. LONDON Boats A LIFE BOATS INCL. 1 MOTOR.

Ceiling in Holds, thickness and material 2 1/2" W.P. OVER LUMBERS ONLY. Cargo Battens, thickness, material and spacing NONE FITTED. (SEE PAGE 4)

Cargo Hatchways.—(Upper Deck) STEEL, CORRUGAS 30" HIGH, STIFFENED. Thickness of Hatches 2 1/2", 3" ACROSS RUNNER.

Size of Hatchways No. 1 (Fwd.) 31'6" x 20'0" No. 2 31'0" x 20'0" No. 3 12'11" x 20'0" No. 4 10'4" x 20'0" No. 5 31'0" x 20'0" No. 6 31'0" x 20'0"

Number of Shifting Beams 5 IN N° 1, 2, 4, & 6, 2 IN N° 3, 1 IN N° 4.

Builder's Signature

For WILLIAM HAMILTON & CO., LTD

Israel Wulldorf

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 NO.

(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 is of YS type and the scantlings are suitable for a draught 18" in excess of that corresponding to the freeboard which could be assigned to the vessel with a tonnage opening.

The vessel has been built in accordance with the approved plans, instructions, and printed Rules of this Society. The materials and workmanship are of good quality. All the double bottom tanks, cofferdam, peak tanks and deep ballast tanks have been tested to Rule requirements and found satisfactory. The weather decks, watertight bulkheads, shaft tunnel and trunks have been tested, and ash shoot fitted and tested with satisfactory results. Watertight doors, bridge sections, hand pumps, steam and auxiliary steering gear and windlass tried and found satisfactory.

The amount of Entry Fee..... £10:0:0

Special Survey Fee..... £37:9:6

Travelling Expenses, if any..... £

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

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed + 100A1.

Signature *H. L. Swinton*
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to GREENOCK OFFICE. Date of issue 22/9/43

Committee's Minute GLASGOW 31 AUG 1943

Character assigned - 100A1 8.43
with freeboard

Lloyds Assoc

- 100A1 8.43

Note: Egt - Co. bins

Wb!

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.)

Freeboard verified and the marks cut in on the vessel's sides. Echo sounding device (Hughes) fitted at after end of No. 1 Double bottom tank between frames 124-5, no opening in shell plating. Openings in tween deck bulkheads 40, 56, and 133 closed with riveted plates. Openings in tween deck bulkheads 85 and 95 fitted with hinged steel watertight doors manipulated from both sides. No cargo battens fitted in holds and tween decks but arrangements made and plates provided for battens being fitted at a later date.

The spare bower anchor has been dispensed with. Wood covers fitted to all hatchways on second deck as per D.D.M.B. instructions. All the requirements of the finally approved plans and as fitted specifications have been carried out and a copy of the certificate issued is forwarded herewith. Copy of interim certificate is also forwarded. Plans forwarded as per separate list.

Sister Vessel (with modifications) to S/S EMP. TRUMPET G.R. 1-6 Rpt No. 22305.

Gunnet plates to tank margin. Bulk: stiffeners. Brackets to tank top & stiffeners. Middle line bulkhead stiffeners to tank top. Tunnel steel plates to tank top. Side ballast tank top to shell. Second dk. stringer plates to shell.

PARTICULARS OF ELECTRIC WELDING (if employed)

Steel plating. Butts of hatch cover bars on upper dk. Hatch craning corners on second dk. Ventilator washings to deck. Chain pipes to decks. Crews companion to deck. Bulwark stays to deck. Cement bars in tween deck. Butts of upper deck stringer angles. Fresh water & sanitary service tanks. After ballast tank top to shell. Lashing cleats to frames etc. Other minor items.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. † 100 A1. with freeboard.

7 BHs (6 to W. dk, 6 to 1st dk). 5 divisional W.T. BHs. in tween dk. Cruiser stern, D.T. E.S.R. Lloyd's A.S.C.P. 2 BHs. (dell).

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

1st Bower 43.3.5 INCL. PIN. A.E.G. 1693. 12.8.41. (SUNDERLAND).
2nd " 44.0.0 " C.P. 4055 26.3.42. "
3rd " 39.5

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 29 ft.

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

Official No. 169506. Signal Letters. Extreme Breadth over Belting ✓ Over-all Length 447.3 ft. (Circ. 1611) (Circ. 1703)

No. and Material of Decks 2 BHs. (dell).

Parts of Bottom of Vessel coated with cement or approved composition Cement in peaks, bilges, & double bottom tank under boilers. Haulbars cement wedges at seams & butts of shell.

Particulars of composition (if fitted) and of approval also covering all rivet heads in frames, girders & shell.

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,	67.16	257	Fore peak tank,		122
Double bottom, under Engines and Boilers,			After peak tank,		172
Double bottom, if under Engines only, F.W.	28.42	120	Deep tank, aft, P & S. TUNNEL SIDES.	86.83	485
Double bottom, if under Boilers only,	15.50	74	Deep tank, forward, P & S. N.I. HOLD.	14.00	268
Double bottom, forward,	193.92	224	Other tanks, if fitted, SIDE TANK E.R. PORT.	20.66	180
Total length (if continuous) and Capacity	205.00	1175	(If necessary furnish further information by sketch) STAR.	23.25	204

Order for Special Survey No. 3498

Date 29th MAY 1943.

Dates of Surveys held while building

(1942) JULY 2-14. AUG. 2-5-6-14-19-24. SEPT. 1-15-22-25. OCT. 8-15-21-29. NOV. 3-11-12-14-23-25-26. DEC. 2-8-14-23-30. (1943) JAN. 4-18-22-29. FEB. 4-9-16-19-23-25. MAR. 1-5-10-11-15-14-19-22-24-25. APRIL 1-5-8-21-24. MAY 3-5-4-10-13-14-18-20-24-25-26-28. JUNE 3-5-4-9-11-14-15-16-18-21-22-23-24-25-28-29. JULY 1-4-22-24-30. AUG. 5-9-11-15-17-19.

Total No. of Visits 91