

Rpt. 1

SINGLE SCREW TUG.

STEEL STEAMER OR MOTORSHIP

- 8 OCT 1943

Received at London Office

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 4. 10. 43Port of ABERDEENNo. 21207Survey held at ABERDEENDate First Survey 11. 2. 43Last Survey 2. 10. 1943On the (State if Machinery fitted Aft or Fore if Single, Twin or Triple Screw) STEEL SINGLE SCREW TUG "EMPIRE HARLEQUIN"State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) ✓State Type of Erections NONETONNAGE under Tonnage Deck 217.93CLASS 100.A.1.State if with freeboard as condition of Class noBuilt at ABERDEEN~~Do. of spaces or spaces between Tonnage Deck and Upper Deck~~

FOR TOWING SERVICES.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 105.0Launched 2. 8. 43 Yard No. 693Total 217.93Breadth (greatest moulded) 27.0Builders A. HALL & CO. LTD.Gross Tonnage 232.28Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 12.5Owners The Ministry of War TransportRegister Tonnage NIL1st Longitudinal Number (L x D) 1312.5~~Managers~~ (Where necessary to be entered in Reg. Book)2nd Numeral L x (B + D) 4147.5~~Residence~~ ✓

REGISTERED DIMENSIONS.

FEET

Length 105.2Framing Depth "d," at middle of length. See Sec. 3 (1d) 11.42Breadth 27.15Proportions—Depth to Length—Uppermost continuous deck to top of keel 8.4Depth 11.7~~Do. Long Bridge to top of keel~~ ✓Draught Moulded 10.11.5Port of Registry ABERDEEN

If surveyed while building, afloat, or in dry dock

FIRST ENTRY.

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 <u>amidships throughout</u>	21"	✓	Bracket Floors, Frame	✓	✓
" " <u>from 1/2 length amidships to Collision bulkhead</u>	✓	✓	" " <u>Reversed Frame</u>	✓	✓
" " <u>in peaks</u>	21"	✓	" " <u>Vertical Struts</u>	✓	✓
SIDE FRAMING.			<u>Centre Girder, depth and thickness amidships</u>	✓	✓
Frame Amidships, <u>Angle, E or F</u>	5" 5" 30" B.A.	✓	" " <u>top Angles</u>	✓	✓
" <u>in way Oil Bunker + B.R.</u>	5" 3" 36" B.A.	✓	" " <u>bottom Angles</u>	✓	✓
" <u>Extends up to</u>	<u>Uppermost Deck</u>	✓	<u>Side Girders, No. each side and thickness</u>	✓	✓
Reversed Frame Amidships, Angle	48" 22" 31" 32" 32" 10 B.S.	✓	<u>Margin Plate depth (excl. of flange) and thickness</u>	✓	✓
" <u>Extends up to</u>	<u>across lip of 2000s</u>	✓	" " <u>Vertical Angle to Tank side</u>	✓	✓
Depth of Framing Girder	5"	✓	" " <u>Bracket abaft 1/2 len. from stem</u>	✓	✓
<u>Frames in Uppermost Continuous 'tween Decks, Angle, E or F</u>	✓	✓	" " <u>Vertical Angle to Tank side</u>	✓	✓
" <u>Second 'tween Decks, Angle, E or F</u>	✓	✓	" " <u>Bracket from forward 1/2 len. from stem to Panting Area</u>	✓	✓
" <u>Third</u>	<u>CANT FRAMES.</u>	✓	" " <u>Cussets, spacing and scantling abaft 1/2 len. from stem</u>	✓	✓
" <u>from 1/2 len. for'd. to 15% len. from Stem</u>	✓	✓	" " <u>Cussets, spacing and scantling from forward 1/2 len. from stem to Panting Area</u>	✓	✓
" <u>in Peaks, Angle or F</u>	5" 5" 30" B.A.	✓	<u>Tank Side Brackets, height above base line at top of Frame and thickness</u>	✓	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<u>3/4" rivets. 5 1/2" pitch.</u>	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	<u>Yes</u>	✓	<u>Breadth and thickness of Middle Line Strake</u>	✓	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<u>As per approved Plans.</u>	✓	<u>Thickness of remainder in Holds</u>	✓	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<u>As per approved Plans.</u>	✓	<u>Arc Rule requirements complied with regard to increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?</u>	✓	✓
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	<u>18" x 36" + 50" in Bunker.</u>	✓	<u>Uppermost Continuous Deck, amidships in</u>	<u>6" 3" 38" 32" + 38" B.A.</u>	✓
<u>Height of Brackets at side above base line at top of frame</u>	<u>E.S. + B.S. 50"</u>	✓	" " <u>Wells, Angle, E or F</u>	<u>in way accom. aft. all frames</u>	✓
Middle Line Keelson, on Floors, Angle	<u>Transverse floor 38"</u>	✓	" " <u>in way of Bridge, Angle, E or F</u>	<u>6" 3" 28" B.A. all frames</u>	✓
" <u>Through Plate or Inter-coastal Plate</u>	<u>7" 5" 41" Double.</u>	✓	Spacing	<u>5" 3" 40" A in way A. Deck.</u>	✓
" <u>Foundation Plate on Floors</u>	<u>For. of 2nd boiler tank.</u>	✓	<u>Half Beams in way Boiler Space</u>	<u>3" 3" 30" A every frame.</u>	✓
" <u>Flat Plate Keel Angles</u>	✓	✓	<u>Second Deck, amidships, Angle, E or F</u>	<u>3" 3" 30" A in way Eng. Space</u>	✓
Side Keelsons, No. each side	<u>ONE.</u>	✓	Spacing	<u>Elbow frame 4" x 3" x 30" A.</u>	✓
" <u>thickness of Intercoastal Plate</u>	✓	✓	<u>Third Deck, amidships, Angle, E or F</u>	✓	✓
" <u>Angles</u>	<u>BULB Double.</u>	✓	Spacing	✓	✓
DOUBLE BOTTOM.			<u>Accommodation Side, Forward.</u>	<u>4" 3" 30" A.</u>	✓
<u>Solid Floors, thickness and spacing</u>	✓	✓	<u>Fourth Deck, amidships, Angle, E or F</u>	✓	✓
" <u>Are Frame and Reversed Frame joggled?</u>	✓	✓	Spacing	<u>all metal frames.</u>	✓
<u>Bracket Floors, breadth and thickness at middle line</u>	✓	✓	<u>Accommodation Side, aft.</u>	<u>4" 3" 30" A.</u>	✓
" <u>breadth and thickness at margin plate</u>	✓	✓	<u>Peep Deck, Angle, E or F</u>	✓	✓
			Spacing	<u>all metal frames.</u>	✓
			<u>Bridge Deck, Angle, E or F</u>	✓	✓
			Spacing	✓	✓
			<u>Forecastle Deck, Angle, E or F</u>	✓	✓
			Spacing	✓	✓

(MADE IN ENGLAND.)

006248-006257-0140 1/2

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	as per Profiles.	✓	Stringer Plate, breadth and thickness in way of Bridge	✓ ✓ ✓
accom. Forward	✓		Thickness of Plating abreast Deck openings in way of Wells	✓ ✓ ✓
" in 'tween Decks, Size and Spacing	2" x 2 1/2"	✓	Thickness of Plating abreast Deck openings in way of Bridge	✓ ✓ ✓
" " Crew Space aft.	2 1/2"	✓	Thickness of Plating within line of openings	✓ ✓ ✓
" " " " " "	✓	✓	If Sheathed, material and thickness	✓ ✓ ✓
" in Holds	2 1/2"	3 P + 2 S	Third Deck	
" " " " " "	2 1/2"	" "	Stringer Plate, breadth and thickness	✓ ✓ ✓
Centre Line Bulkhead	✓	✓	If Plated, state thickness	✓ ✓ ✓
Stiffeners and Spacing	✓	✓	Fourth Deck	
Plating, thickness of	✓	✓	Stringer Plate, breadth and thickness	✓ ✓ ✓
STRINGERS AND DECKS.			If Plated, state thickness	✓ ✓ ✓
Uppermost Continuous Deck.			Peep Deck	
Stringer Plate, breadth and thickness in Wells	60" x 86"	✓	Stringer Plate, breadth and thickness	✓ ✓ ✓
" " " " in way of Bridge	✓	✓	Plating, Sheathing, material and thickness	✓ ✓ ✓
" Angle in Wells	3" 3" 3 1/4" 6" 3" 3 1/4" at Stn.	✓	Bridge Deck	
Thickness of Plating abreast Deck openings in way of Wells	30" x 86" inside Rouses	✓	Stringer Plate, breadth and thickness	✓ ✓ ✓
Thickness of Plating abreast Deck openings in way of Bridge	✓	✓	Plating, Sheathing, material and thickness	✓ ✓ ✓
Thickness of Plating within line of openings	✓	✓	Forecastle Deck	
If Sheathed, material and thickness	none	✓	Stringer Plate, breadth and thickness	✓ ✓ ✓
Second Deck			Plating, Sheathing, material and thickness	✓ ✓ ✓
Stringer Plate, breadth and thickness in Wells	✓	✓		

SHELL PLATING.

SCANTLINGS.					RIVETING.				
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.				
	AMIDSHIPS.		FORWARD.	AFT.	UPPER EDGES.	BUTTS.			
	Breadth.	Thickness.	Thickness.	Thickness.		No. of Rows of Rivets.	Rivets.	Strapped or Lapped.	
Flat Plate Keel	✓	✓	✓	✓	State if jogged?	NO.			
" Dblg. (if any)	✓	✓	✓	✓	NO.				
Bottom Plating, No. of Strakes	A. 38	.36	.30	.31	HEEL + Stem + 3 rows needed 1 rivet 5" pitch.	116			
Bilge Plating, No. of Strakes	B. 52	.34	.30	.34	2 1/2" SINGLE	2 R. 9 1/2"	2 1/2"	2 5/8"	STRAPPED.
Side Plating, No. of Strakes	C. 52	.34	.30	.30	" " " " " "	2 R. 5"	"	"	LAPPED
Upper Deck, Sheer-strake in Wells	D. 52	.34	.30	.30	" " " " " "	"	"	"	"
Upper Deck, Sheer-strake in Bridge	E. 52	.36	.30	.30	" " " " " "	"	"	"	"
Strake below Sheer-strake in Wells	F. 52	.50	.50	.36	SEAMS AS DOUBLE IN WAY OF CROSS BUNKER.	2 R. 9 1/2"	2 1/2"	2 5/8"	STRAPPED.
Strake below Sheer-strake in Bridge	G. 52	.36	.30	.30	4 1/2" DOUBLE	2 R. 5"	2 1/2"	2 5/8"	LAPPED.
Peep Side Plating	H. 52	.36	.30	.30	" " " " " "	"	"	"	"
BULKHEADS.	I. 52	.36	.30	.30	" " " " " "	"	"	"	"
Bridge Side Plating	J. 52	.36	.30	.30	" " " " " "	"	"	"	"
Forecastle Side Plating	K. 52	.36	.30	.30	" " " " " "	"	"	"	"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	3 B.H. for record
Extending to Upper Deck (Sec. 3 c)	3. WATERTIGHT. 2. O.T. BUNKER BULKHEADS
" Deck next below	✓
As per Rule + as approved.	✓

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	Bulb Peak.	1 1/2 x 1 1/2	Consell Iron Co.	
STEM	"	"	"	
STERN FRAME	Propeller Post	6 x 3	T. B. Darnley & Sons	
	Rudder	"	Sunderland.	
Speed of Vessel	10. knots.			
RUDDER—Type	Single plate.			
" A x D	105.			
" Diam. of head	5 1/2"			
" Mainpiece at top pintle	6 1/2"			
" " heel	4 1/2"			
" how constructed	main piece rolled steel, arms mild steel, shrunk on & keyed.			
" double or single plate	single	.75"		
" coupling, vertical or horizontal	none.			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks					
" " Second					
" " Third					
" " Holds					
COLLISION	(in Hold)				
AFTER PEAK					

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	Siemens Martin.
	The Steel Co. of Scotland Ltd. Dorman Long & Co. Ltd. The Lanarkshire Steel Co. Ltd.	
	Colvilles Ltd. Appleby & Frodingham Steel Co. Ltd.	
	Has the Steel been tested as required by the Rules?	Yes.

