

SALVAGE LIGHTER. STEEL STEAMER OR MOTORSHIP.

OCT 29 1940

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 **21-10-40**Port of **MIDDLESBROUGH.**No. **16912**Survey held at **HAVERTON HILL ON TEES.**Date First Survey **21-2-40**

Last Survey

16-10-1940

On the (State if Machinery fitted with or without a Propeller)

L.C. 10. SALVAGE LIGHTER.

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

FULL SCANTLING.State Type of Erections **FLUSH DECK.**TONNAGE under Tonnage Deck... **907.51**CLASS **100. A1. SALVAGE LIGHTER.** State if with freeboard as condition of Class **YES.**Built at **HAVERTON HILL - ON TEES.**

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

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a) **L 180'0"**Launched **AUG 20th 40** Yard No. **336.**Total **907.51**Breadth (greatest moulded) **B 39'0"**Builders **FURNESS S.B.C. LTD.**Gross Tonnage **918.22**Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 17'6"**Owners **ADMIRALTY.**Register Tonnage **814.30**1st Longitudinal Number (L x D) **= 3150.**

Managers

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

REGISTERED DIMENSIONS.

FEET.

Length **173.0**Breadth **39.2**Depth **15.5**

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

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

Do. Long Bridge to top of keel

Draught Moulded **14'12"**

Residence

Port of Registry **HARTLEPOOL.**

If surveyed while building, afloat, or in dry dock

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	24"		Bracket Floors, Frame		
" " from $\frac{3}{8}$ length amidships to Collision bulkhead	✓		" " Reversed Frame		
" " in peaks	24"		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	33" 20.0	✓
Frame Amidships, Angle E or F	6" 3 1/2" 14.92	✓	" " top Angles DOUBLE	3 1/2 3 1/2 9.81	✓
" " Extends up to PLATFORM DECK.	✓		" " bottom Angles DOUBLE	3 1/2 3 1/2 9.81	✓
" " UP. 41-49, INHUNIA	✓		Side Girders, No. each side and thickness	2: 12.5 LBS.	✓
Reversed Frame Amidships, Angle	✓		Margin Plate depth (excl. of flange) and thickness	30" 20.0	✓
" " Extends up to	✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem	7	
Depth of Framing Girder	6"		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{2}$ len. from stem to Panting Area		
Frames in Uppermost Continuous 'tween Decks, Angle E or F	6" 3 1/2" 14.92 LBS	✓	" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem		
" " Second 'tween Decks, Angle E or F	✓		" " Gussets, spacing and scantling from forward $\frac{1}{2}$ len. from stem to Panting Area		
" " WEB FRAMES IN 'TWEEN DECK EVERY FRAME CLEAR OF B.S.	✓		Tank Side Brackets, height above base line at toe of Frame and thickness	4-6" 17.00	✓
" " Third 18" 17 LBS DOUBLE FACE BARS 3 1/2-3 1/2 9.81 LBS	✓		INNER BOTTOM PLATING.		
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	✓		Breadth and thickness of Middle Line Strake		
" " in Peaks, Angle or F	✓		Thickness of remainder in Hold IN BOILER SPACE	20	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 5 1/2	✓	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?	✓	
State if Frame Joggled	NO	✓	BEAMS.		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	✓		Uppermost Continuous Deck, amidships	6 3 1/2 14.92	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	✓		" " in Wells, Angle E or F	✓	
SINGLE BOTTOM.			" " BEAMS IN WAY OF SALVAGE BOLLARDS.	✓	
Floors, Depth and thickness at mid-line in Holds	21 17	✓	" " in way of Bridge, Angle	18" 17 LBS PLATE	✓
Height of Brackets at side above base line at toe of frame	4' 6"	✓	" " E or F DOUBLE FACE BARS 3 1/2-3 1/2 9.81 LBS	✓	
Middle Line Keelson, on Floors, Angles	6" 3" 11.0	✓	Spacing	EVERY	✓
" " E or F	✓		Second Deck, amidships, Angle E or F	6 3 1/2 14.92 LBS	✓
" " Through Plate or Intercoastal Plate	26" 15 LBS	✓	Spacing	EVERY	✓
" " Foundation Plate on Floors	✓		Third Deck, amidships, Angle E or F	✓	
" " Flat Plate Keel Angles	3 1/2 3 1/2 9.81	✓	Spacing		
Side Keelsons, No. each side	ONE IN SIDE TANK	✓	Fourth Deck, amidships, Angle E or F	✓	
" " thickness of Intercoastal Plate	15 LBS	✓	Spacing		
" " Angles DOUBLE ON TOP OF FLOORS	6 3 11.0	✓	Poop Deck, Angle E or F	✓	
" " ON BILGE BRACKETS	6 3 11.0	✓	Spacing		
DOUBLE BOTTOM. IN BOILER ROOM.	17 EVERY FRAME	✓	Bridge Deck, Angle E or F	✓	
Solid Floors, thickness and spacing	✓		Spacing		
" " Are Frame and Reversed Frame joggled?	NO	✓	Forecastle Deck, Angle E or F	✓	
Bracket Floors, breadth and thickness at middle line	✓		Spacing		
" " breadth and thickness at margin plate	✓				

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.....	Two in Tween Decks.	32' 0" in Way		✓					
" in 'tween Decks, Size and Spacing.....		as Salvage Bollards.							
" " " " " "									
" in Holds " "									
" " " " " "									
Centre-Line Bulkhead , P.S. 6' 6" from 4 up to Platform Deck				✓					
Stiffeners and Spacing.....	6 3/4 14-92	24" Apart.		✓					
Plating, thickness of	Corrug 17 LBS PLATING	15 LBS		✓					
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells	72 1/2 x 1700 LBS			✓					
" " " " in way of Bridge	30" Double 145 1/4	Way of Bollards		✓					
" Angle in Wells	6 3/4 3/4			✓					
Thickness of Plating abreast Deck openings in way of Wells		1700 LBS.		✓					
Thickness of Plating abreast Deck openings in way of Bridge		✓							
Thickness of Plating within line of openings...		✓							
If Sheathed, material and thickness		✓							
Second Deck (Platform Deck)									
Stringer Plate, breadth and thickness in Wells...	1700 THROUGHOUT.	76 3/4"		✓					
Stringer Plate, breadth and thickness in way of Bridge									
Thickness of Plating abreast Deck openings in way of Bridge									
Thickness of Plating within line of openings...									
If Sheathed, material and thickness									
Third Deck.									
Stringer Plate, breadth and thickness.....									
If Plated, state thickness.....									
Fourth Deck.									
Stringer Plate, breadth and thickness.....									
If Plated, state thickness									
Poop Deck.									
Stringer Plate, breadth and thickness									
Plating, Sheathing, material and thickness									
Bridge Deck.									
Stringer Plate, breadth and thickness.....									
Plating, Sheathing, material and thickness									
Forecastle Deck.									
Stringer Plate, breadth and thickness.....									
Plating, Sheathing, material and thickness									

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	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	39"	22.50	20	20	See letter 11.11.40	DOUBLE.	7/8"	3 1/2"	3.	7/8"	3 1/2"	LAPPED.	
„ DBLG. (if any)													
BOTTOM PLATING, No. } of Strakes 3.....}		17.00	15.00	15.00		DOUBLE.	3/4"	3"	3	3/4"	2 5/8"	LAPPED.	
BILGE PLATING, No. of } Strakes 4 1/2.....}		17.00	15.00	15.00		-	-	-	-	"	"	STRAPPED	
SIDE PLATING, No. of } Strakes 7 1/2.....}		DOUBLE 17.00	25.00	15.00		"	"	"	"	-	-	LAPPED.	
UPPER DECK, Sheer- } strake in Wells.....}		1.00	As APPROVED.			EW			E.W.				
UPPER DECK, Sheer- } strake in Bridge ...}													
STRAKE BELOW Sheer- } strake in Wells.....}		17.00	15.00	15.00		DOUBLE.	3/4"	3"	3	3/4"	2 5/8"	LAPPED.	
STRAKE BELOW Sheer- } strake in Bridge ...}													
POOP SIDE PLATING													
BRIDGE SIDE PLATING ...													
FOREC'TLE SIDE PLATING													

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c)

" Deck next below

As per Rule

4

2.

As Approved. 6.

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULK'D , Upper tween decks					
" " Second "					
" " Third "					
" " Holds	17-15	6 3/4 14-92	24	✓	✓
COLLISION " (in Hold)	17-15	D°	D°	✓	✓
AFTER PEAK " "	17-15	D°	D°	✓	✓

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL , Bar		✓		
STEM		✓		
STERN FRAME { Propeller Post				
" { Rudder				
Speed of Vessel				
RUDDER —Type				
" A x D				
" Diam. of head				
" Mainpiece at top pintle				
" " heel				
" how constructed				
" double or single plate				
" coupling, vertical or horizontal				

STEEL.

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

FLATES. SOUTH DURNAM STEEL & IRON CO. LTD
SECTIONS. CARCO FLAT IRON CO. LTD

Has the Steel been tested as required by the Rules?

OPEN HEARTH PROCESS.

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.)

PARTICULARS OF ELECTRIC WELDING (if employed) The following parts of the vessel have been electrically welded with approved electrolytic. Salvage bollards. Frame brackets at sheer strake. Butts - seam of sheer strake, stringer angle. Butts of ridge doublers.

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

Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower 12-1-14 T.T. No 3249 5-7-40
	2nd " 12-1-16 J.D. No 2969 7-6-40
	3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated FLUSH DECK.
Official No. 162462. Signal Letters Extreme Breadth over Belting No BELTING FITTED. Over-all Length 180'-0" (Circ. 1611) (Circ. 1703)
No. and Material of Decks 20" (SL)
Parts of Bottom of Vessel coated with cement or approved composition BALLAST TANKS COATED WITH BITUMASTIC SOLUTION, DOUBLE BOTTOM TANKS IN BAILEY SPACE FARN WATER BITUMINOUS SOLUTION & BITUMINOUS ENAMEL. FRED WATER TANK ALUMINIUM PAINT.
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,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft, CENTRE & WINGS	56	596.
Double bottom, if under Boilers only,	28	62.	Deep tank, forward, D	56	596.
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity	28	62.	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 1530

Date 30-1-40

Dates of Surveys held while building

21.29. Mar. 1.4.5.7.8.11.12.13.15.18.19.20.21.27.28.29. Apr. 1.2.3.4.5.8.9.10.11.12.15.17. 19.22.23.25.26.29.30. May. 2.3.6.7.8.9.13.14.15.17.20.22.23.24.27.28.29.30. June 4.5.6.7.10.11.12.13. 14.18.20.24.25.26.27.28. July 1.3.11.12.15.16.18.22.23.24.25.29.30.31. Aug. 1.2.5.7.8.9.11.19.20.21 26.27.29. Sept. 2.4.6.9.11.12.16.17.18.20.25.26.30. Oct. 1.4.7.11.14.15.16.

Total No. of Visits 119.