

STEEL STEAMER or MOTORSHIP.

Received at London Office 13 SEP 1930

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

Date of completion of report

11th September 1930.

Port of

HULL

No.

21190

Survey held at

BEVERLEY & HULL

Date First Survey

April 1930

Last Survey

10/9/30.

1930

On the

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

SINGLE SCREW KETCH "ARKWRIGHT"

State Type

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

STEAM TRAWLER.

State Type of Erections

QUARTER DECK

TONNAGE under Tonnage Deck

332.66

CLASS

100A.1.

State if with freeboard as condition of Class

No

FEET.

Built at

BEVERLEY

Launched

30/7/30

Yard No. 549

Builders

COOK, WELTON & GEMMELL LTD

Owners

F. T. ROSS & CO. HULL

Managers

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

Residence

WEST DOCK AVENUE HULL.

Port of Registry

HULL.

If surveyed while building, afloat, or in dry dock

BUILDING AND AFLOAT.

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

Total

332.66

Gross Tonnage

369.48

Register Tonnage

148.90

REGISTERED DIMENSIONS.

FEET.

Length

143.6

Breadth

24.55

Depth

13.2

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

L 143.58

Breadth (greatest moulded)

B 24.50

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

D 14.25

1st Longitudinal Number (L x D)

= 2046

2nd Numeral L x (B + D)

= 5564

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

10.07

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

Do. Long Bridge to top of keel

Draught Moulded

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	20 To 21		Bracket Floors, Frame		
" " from 1/2 length to Collision bulkhead	16		" " Reversed Frame		
" " in peaks	16 To 20		" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships		
Frame Amidships, Angle, 1/2	5 3 8/20		" " top Angles		
" " Extends up to	DECK.		" " bottom Angles		
Reversed Frame Amidships, Angle	3 3 38		Side Girders, No. each side and thickness		
" " Extends up to	WHERE NO		Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder	CONCRETE IS FITTED.		" " Vertical Angle to Tank side		
Frames in Uppermost Continuous 'tween Decks, Angle, [or [" " Bracket abaft 1/4 len. from stem		
" " Second 'tween Decks, Angle, [or [" " Vertical Angle to Tank side		
" " Third " " " "			" " Bracket forward 1/4 len. from stem		
Framing in Peaks, Angle 1/2	5 3 8/20		" " Gussets, spacing and scantling abaft 1/4 len. from stem		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 5 1/4		" " Gussets, spacing and scantling forward 1/4 len. from stem		
State if Frame Joggled	No		Tank Side Brackets, height above base line at toe of Frame and thickness		
PANTING ARRANGEMENTS (Sec. 12), state system and particulars	LOWER DECK STRINGER & REAR CLOSER FRAME SPACING & RIVETING		INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars			Breadth and thickness of Middle Line Strake		
SINGLE BOTTOM.			Thickness of remainder in Holds		
Floors, Depth and thickness at mid-line in Holds	18 38		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?		
Height of Brackets at side above base line at toe of frame	FLAT TOPPED		BEAMS.		
Middle Line Keelson, on Floors, Angles,	8 3 1/2 44		Uppermost Continuous Deck, amidships in Wells, Angle, 1/2	6 3 9/20	
" " Through Plate or Intercostal Plate			" " in way of Bridge, Angle, [or [
" " Foundation Plate on Floors			Spacing	ALTERED FRAMES	
" " Flat Plate Keel Angles	5 4 42		Second Deck, amidships, Angle, [or [
Side Keelsons, No. each side	NONE.		Spacing		
" " thickness of Intercostal Plate			Third Deck, amidships, Angle, [or [
" " Angles	5 4 8/20		Spacing		
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, [or [
Solid Floors, thickness and spacing			Spacing		
" " Are Frame and Reversed Frame joggled?			Poop Deck, Angle, [or [
Bracket Floors, breadth and thickness at middle line			Spacing		
" " breadth and thickness at margin plate			Bridge Deck, Angle, [or [
			Spacing		
			Forecastle Deck, Angle, 1/2	4 3 38	
			Spacing	30	

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					
,, in 'tween Decks, Size and Spacing.....						4' 6" length					
,, ,, ,, ,, ,,											
,, in Holds ,, ,,						3" Dia.					
,, ,, ,, ,, ,,											
Centre Line Bulkhead.											
Stiffeners and Spacing.....						82' 4 1/2"					
Plating, thickness of						92' 30"					
STRINGERS AND DECKS.											
Uppermost Continuous Deck.											
Stringer Plate, breadth and thickness in Wells						30 4/16					
,, ,, ,, ,, in way of Bridge						✓					
,, Angle in Wells						3 3 3/8					
The Thickness of Plating abreast Deck openings) in way of Wells						11 4/16					
Thickness of Plating abreast Deck openings) in way of Bridge						5/16 0 4/16					
Thickness of Plating within line of openings...						4/16 0 7/16					
If Sheathed, material and thickness						3" PITCH PLATE.					
Second Deck.											
Stringer Plate, breadth and thickness in Wells...						✓					
Stringer Plate, breadth and thickness in way of Wells						4' 6" length					
Thickness of Plating abreast Deck openings) in way of Wells						10' 3" 1/2"					
Thickness of Plating abreast Deck openings) in way of Bridge						10' 3" 1/2"					
Thickness of Plating within line of openings...						10' 3" 1/2"					
If Sheathed, material and thickness						10' 3" 1/2"					
Third Deck.											
Stringer Plate, breadth and thickness.....						10' 3" 1/2"					
If Plated, state thickness.....						10' 3" 1/2"					
Fourth Deck.											
Stringer Plate, breadth and thickness.....						10' 3" 1/2"					
If Plated, state thickness						10' 3" 1/2"					
Poop Deck.											
Stringer Plate, breadth and thickness						10' 3" 1/2"					
Plating, Sheathing, material and thickness ...						10' 3" 1/2"					
Bridge Deck.											
Stringer Plate, breadth and thickness.....						10' 3" 1/2"					
Plating, Sheathing, material and thickness ...						10' 3" 1/2"					
Forecastle Deck. WAREHOUSING.											
Stringer Plate, breadth and thickness.....						31					
Plating, Sheathing, material and thickness ...						31					

[illegible]

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	4
" Deck next below	✓
As per Rule	3

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	ROLLED	8" x 2"	FROTHINGHAM.	
STEM	"	"	STEEL CO.	
STERN FRAME {	Forging	6 x 3 1/4	EMERSON WALKER	}
Propeller Post	"	6 x 3 1/4	TRUSTON-OL-TYPE	
Rudder "	"	"	"	
RUDDER—A x D	44 x 41 x 212	= 94-1		
Speed of Vessel	UNDER 12 KNOTS			
RUDDER mainpiece at head	Forging	5 3/4	EMERSON WALKER	}
" " heel	"	4 x 3	TRUSTON-OL-TYPE	
" how constructed	STEEL BOX	6 ARMS	NONE TREE.	
" double or single plate		30		
" coupling, vertical or		NONE.		
" horizontal				

Manufacturer's Name, or Trade Mark, of the Steel used in the construction of the Vessel (state process of manufacture) CHAGO FLEET, CONSETT IRON CO, SOUTH DURHAM STEEL CO, APPLEBY STEEL CO. OPEN HEARTH PROCESS

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

LETTER *p.*

Number of Certificate.	ANCHORS.	WEIGHT, EX. STOCK	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makara.	Where and when tested and Superintendent.
		Gws. grs. lbs.	Gws. grs. lbs.	Tons. gws. grs. lbs.	Gws.			
63876	1st Bower ...	8 2 17	NONE	10 15 0 0	8½	TAYLORS MACHONOUGH	SENIOR TAYLOR	TIPTON 20/10 to W. H. DAVENPORT
63875	2nd „ ...	8 0 14	NONE	10 5 0 0	8	“	“	“ 30/6/30 “
	3rd „ ...							
	Collective weight.	16 3 3			16½			
63874	Stream	3 1 4	3 14	5 14 1 14	3½	RODGERS IRON STOCK.	“	“ 30/6/30 “

HAWSERS AND WARPS.

HAWSEARS AND WARPS.																			
Number of Certificates.	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.	Tons.	Break- ing. ing.	Supplied.	Per Rule.	Cwts.	qrs. lbs.					Fathoms.	Ins.		Fathoms.	Ins.	Length.	Cir.
66220	120 1/2	1 1/2	22 1/2	34 1/2	79-0-17	77 3/4	120	1 1/2	FRUENZ, DANIEL TAYLOR	Tested 29/5/30	14. 12. 19.								

Steering Gear, Hand *RELIEVING TACKLES, & TILLER.*

Steering Chains, Size and Test.

$\frac{7}{8}$ DIA.

Windlass *GENNELL* • *FROM HULL.*
COMBINED STEAM • HAND.

Ceiling in Holds, thickness and material *3" OAK & 2 1/4" PITCH PINE*

Cargo Battens, thickness, material and spacing *2" Pitch Pine ROSE LINED.*

Cargo Hatchways.—(Upper Deck) *STEEL PLATE GAININGS.*

Thickness of Hatches 3"

Size of No. 1 Hatchway (Forward) *2'5" x 3'1"* No. 2 *2'5" x 3'1"* No. 3 *2'5" x 3'1"* No. 4 *3'5" x 3'1"* No. 5 *4'0" x 3'1"* No. 6 ✓

Number of **Shifting Beams** and/or **Fore and Afters** *NONE.*

COOK, WELTON & GEMMELL, LTD.,

Builder's Signature

Secretary & Director

[illegible]

Fees applied for,

1920

11.10.30

I am of opinion the Vessel should be Classed 7100A1
STEAM TUG

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

Signature _____
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to..

Date of issue 13/10/30

Committee's Minute/..... FRI. 19 SEP 1930

Character assigned

+ 100A

Steam Trawler

Lloyd's A. & C. P.

+ L. Inc. 9.30

C.L.

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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.)

This trawler has been built in accordance with the approved plans and Society Rules. The workmanship and materials appear to be satisfactory. The two peaks, the watertight flat aft, deck and gutterways, canvas and pump, have been tested. The approved plans are Midship section, profile and deck plan, stern frame and rudder and pumping arrangement. The Owner consent has been obtained for chipping with the shell connection to the panting stringer.

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

1st Bower ✓
2nd „ ✓
3rd „ ✓

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. 80.0 ft., Bridge ✓ ft., Forecastle 22.6 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 Dk.

Official No. ; Signal Letters ; Is bottom of Vessel coated with cement YES if not give particulars of composition Bituminous also bottom cement.

PARTICULARS OF WATER BALLAST.—

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,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 2961.

Date 8.3.30

Dates of Surveys held while building

1930. Apr. 15. 23. 29. May. 2. 8. 14. 20. 26. Jun. 3. 6. 11. 14. 23. Jul. 1. 9. 14. 23. 29. 30. Aug. 1. 11. 15. Sep. 1. 5. 6. 10.

Lloyd's Register Foundation

Total No. of Visits 26

For S.S.O.F. please see FE Rpt. ss. "Welsbach", Hnd. 41110