With ~~or Without~~ Disconnected Erections.

STEEL STEAMER.

State if Report is also sent on the Machinery of the Vessel Gms Rpt.

Received at London Office WED. JUL 26 1911

Date of completion of report 25. 7. 11 Port of Hull No. 23995

Survey held at Selby Date, First Survey Mar 9th Last Survey July 1911

On the Steam Trawler "CAYRIAN." Rig Ketch

TONNAGE under Tonnage Deck	198.05
Do. between Tonnage Dk. and 3rd and 4th Dk.	
Total under Upper Dk.	
Do. of Poop	
Do. of R.Q.Dk.	13.64
Do. of Bridge House	
Do. of Forecastle	
Do. of Houses on Dk.	4.68
Do. of excess of Hatchways	
Do. above Crown of Engine Room	
Gross Tonnage	216.37
Less Crew Space	19.94
Less above Crown of Engine Room	
NNAGE FOR FEES	196.43
s Engine Room	103.78
s Navigation Spaces	7.74
gister Tonnage / *s out on Beam*	84.91

CLASS ✠ 100 A1. "Steam Trawler." FEET.

Breadth (*greatest moulded*)	21.375
Depth, *at middle of length from top of keel to top of upper deck beams at side*	12.25
Transverse Number	33.625
Length *on deck from fore part of stem to after part of stern post*	120.00
Longitudinal Number	4035
Depth "d," *at middle of length (See Secs. 2 & 13)*	10.92
Proportions—*Depths to Length—Upper Deck Beam at side to top of keel*	9.79
" " *Long Bridge Deck Beam at side to top of keel*	✓

Master ✓

Year of appointment (1) *As Master in service of owner of present vessel:*—191 (2) *As Master of this vessel* 191

Built at Selby

When built 1911 *Launched* 13th May.

By whom built Cochrane & Sons

Owners Great Central Co-operative Engineering & Ship Rep. Co. Ltd.

Managers

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

Residence Grimsby.

Port belonging to Grimsby.

Destined Voyage Fishing *If Surveyed while Building, and Afloat, ~~or in Dry Dock~~* Yes.

	Feet.	Inches.		Feet.	Inches.		Feet.	Inches.	
LENGTH on Deck as per Rule	120	0	**BREADTH**— Moulded	21	4½	**DEPTH, ACTUAL**—Top of Floors to top of Upper Dk. Beams	11	6	No. of Decks with flat laid One
						Do. do. do. do. Second Dk. Beams	✓		No. of Tiers of Beams One

Dimensions of Ship per Register, Length 120.0 breadth 21.5 depth 11.5. Moulded depth, ft. ✓ ins. To Bridge Dk. Round of Upper Dk. Beam, Actual 7 ins.

Moulded depth, ft. 12 ins. 3 To Upper Dk.

FRAMING.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule as Approved.	Inches per Rule ved.
			16ths			16ths
FRAME, Angles, ~~or E or L Bars~~ amidships	4	3	8/20	4	3	8/20
Do. in peaks						
Do. in way of Double Bottoms at Solid Floors		✓				
" " at intermdt. Bkts.		✓				
pacing of Frames from centre to centre amidships		21			21	
" " " " from ¼ length to Collision bulkhead	21	10½	Dbl.	plan.		
" " " " in peaks						
EVERSED FRAME, Angles	2½	2½	4	2½	2½	4
Do. in way of Double Bottoms at Solid Floors		✓				
" " at intermdt. Bkts.		✓				
RAMING, depth of girder		4			4	
LOORS, depth and thickness of Floor Plate at mid-line for ¼ length amidships	16		6	16		6
" in way of Engine and Boiler Spaces			7			7
" thickness at the ends of vessel			5			5
" depth at ¼ the half breadth, as per Rule			Straight- across Dbl.		plan.	
" height extended at the Bilges						
LOORS & BRACKETS in **Cell Dble Bottoms**		✓				
" " state if flanged (top & bottom)		✓				
" " Spacing		✓				
NTRE GIRDER, in Dbl. bottom, dpth. & thicknss.		✓				
" " Angles, Top		✓				
" " " Bottom		✓				
" " " to Floors		✓				
DE GIRDERS, number on each side & thickness		✓				
" " state if flanged (top and bottom)		✓				
" " Angles (top and bottom)		✓				
" " " to Floors		✓				
RGIN PLATE, depth (exclusive of flange) and thickness		✓				
" " Angles to Outside Plating		✓				
" " " Floors		✓				
" " Height of Brackets above at bilge		✓				
ER BOTTOM PLATING, breadth and thickness of **Middle Line Strake**		✓				
" " " in Engine and Boiler space		✓				
" " " Remainder in Holds		✓				
AMS, Upper Deck, Single Angle, ~~Bulb Angle, Plate, Tee Bulb, or Channel~~	5	3	8	5	3	8
" Angles on upper edge		✓				
" In way of Long Bridge		✓				
" Spacing		42			42	
AMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel		✓				
" Angles on upper edge		✓				
" Spacing		✓				
AMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel		✓				
" Angles on upper edge		✓				
" Spacing		✓				
BEAMS. Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel		✓				
" Angles on upper edge		✓				
" Spacing		✓				
BEAMS, Bridge Deck. Angle, Bulb Angle, Plate, Tee Bulb, or Channel		✓				
" Angles on upper edge		✓				
Spacing (Sunkheads)		✓				
BEAMS, Forecastle Deck, Angle, ~~Bulb Angle, Plate, Tee Bulb, or Channel~~	4	3	6/20	4	3	6/20
" Angles on upper edge		✓				
" Spacing		32			32	

PILLARS.

	Inches. Size in Ship.	Inches. Spacing in Ship.	Inches per Rule. Or as	Inches per Rule. Approved.
PILLARS, In 'tween Deck, size and spacing	✓			
" " **Hold** " "	2½	As arranged		
" **Quarter 'tween Dks.,** " "	✓			
" " **in Hold** " "	✓			

KEELSONS & STRINGERS.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule as Approved.	Inches per Rule ved.
		Bulb.	16ths			16ths
CENTRE LINE KEELSON, Vertical Plate above floors, ~~Through Plate, or Intercostal Plate~~	7½		7	7½		7
" Rider Plate		✓				
" Flat Plate Keel Angles		✓				
" Horizontal Plates on Floors		✓				
" Angles or Bulb Angles	4	3	7	4	3	7
SIDE KEELSONS, Number		✓				
" Angles or Bulb Angles		✓				
" Plate above floors, for length		✓				
" Intercostal Plate, for length		✓				
" Attached to outside Plating with Angle		✓				
BILGE KEELSON, Angles (One.)	5	4	8/20	5	4	8/20
" Intercostal Plate for length		✓				
" Attached to outside Plating with Angle		✓				
SIDE STRINGERS, Number		One				
" " Angle	5	4	8/20	5	4	8/20
" Intercostal Plate, for length		✓				
" Attached to outside plating with Angle		✓				

Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	50	5	50	5
" " " " br'dth & thickness (in way of Bridge)	✓			
" " " Angle (clear of Bridge)	3 x 3	6	3 x 3	6
" " Tie Plate at sides of Hatchways	8	6	8	6
" Deck.* ~~Iron or~~ Steel, for E. & B. Deck lng.		7/20 - 6/20		7/20 - 6/20
" " Thickness (clear of Bridge)	✓			
" " " (in way of Bridge)	✓			
" Wood Deck. Material & thcknss	P. Pine	3		3
Second Deck Stringer Plate, br'dth & thickness	✓			
" Angles on ditto, No.	✓			
" Tie Plates outside Hatchways	✓			
" Deck.* Iron or Steel, for lng.	✓			
" Wood Deck. Material & thickness	✓			
Third Deck Stringer Plate, br'dth & thickness	✓			
" Angles on ditto, No.	✓			
" Tie Plates, outside Hatchways	✓			
" Deck.* Material and thickness	✓			
Fourth and Fifth Deck Stringer Plate, breadth & thickness	✓			
" " " Angles on ditto, No.	✓			
" " " Tie Plates outside Hatchways	✓			
" " Deck. Material & thickness	✓			
Poop Deck Stringer Plate, breadth & thickness	✓			
" Angle on ditto	✓			
" Tie Plates	✓			
" Deck. Material and thickness	✓			
Bridge Deck Stringer Plate, br'dth & thickness	✓			
" Angle on ditto	✓			
" Tie Plates	✓			
" Deck. Material and thickness	✓			
Sunkheads **Forecastle Deck Stringer Plate,** b'dth & th'kns	✓	5		5
" Angle on ditto	✓			
" Tie Plates	✓			
" Deck. Material and thickness	Oak	4		4

* *If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.*

Form No. 1A.—1m,3,11.T.

WEB FRAMES.	Inches in Ship.	Inches in Ship.	Inches per Rule. Or as Approved.	Inches per Rule. Or as Approved.
WEB-FRAMES, In Fore Body, No. and spacing	✓			
„ „ „ brdth. & thickness	✓			
„ No of Side Stringers „ „	✓			
WEB-FRAMES, In E. & B. Space, No. & spacing	✓			
„ „ „ brdth. & thickness	✓			
WEB-FRAMES, In After Body, No. and spacing	✓			
„ „ „ brdth. & thickness	✓			
„ No. of Side Stringers „ „	✓			
„ Size of Face Angles to Web-Frames	✓			
BRACKET PLATES to Stringers between Web Frames, depth and thickness	✓			

FORGINGS ~~or CASTINGS~~.	Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar, depth and thickness	7½ × 1 5/8	7½ × 1 5/8
STEM, moulding and thickness	7½ × 1 5/8	7½ × 1 5/8
STERN-POST for Rudder do. do. / for Propeller	6 × 3	6 × 3
RUDDER—A×D* Table 22. Speed Under 10 Knots	63.8	63.8
„ Main-Piece, diameter at head	4½	4½
„ „ „ at heel	3½ × 3	3½ × 3

BULKHEADS.	Number: Vessel.	Number: Per Rule.	Thickness.	Stiffeners Horizontal: Size.	Horizontal: Spacing	Vertical: Size.	Vertical: Spacing	Single or Double Frames.	Height up.
			Inches.	Inches.	Inches.	Inches.	Inches.		
W.T. BULKHEADS	4	4	·26	3 × 2½ × 6/20			48 30	Single	Dk.
COLLISION „			·26	3 × 2½ × 6/20			24	Single	Dk.
PARTITION „									
LONGITUDINAL „									

RUDDER, how constructed Forged steel frame.

„ Thickness of Plates ~~or Single Plate~~ ·26"

Can the Rudder be unshipped afloat? Yes

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.? Mild Steel
South Durham. Consett. Palmers.

Are the outside Plates doubled two spaces of Frames in length? Diamond plates fitted

Are the ~~Sluice Valves and~~ Watertight Doors in efficient working order? Yes.

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

PLATING. / RIVETING.

STRAKES.	As in Ship: Amidship Breadth (Inches)	Amidship Thickness (Inches 16ths)	Forward Thickness (16ths)	Aft Thickness (16ths)	Per Rule or as Approved: Amidship Breadth (Inches)	Amidship Thickness (16ths)	Edges (Lower, Ordinary or joggled? Ordinary): Single or Double	Breadth of Lap (Inches)	Rivets Diam. (Inches)	Rivets Spacing cr. to cr. (Inches)	Butts: Double or Treble and for what Length	Rivets Diam. (Inches)	Rivets Spacing cr. to cr. (Inches)	Straps Breadth (Inches)	Straps Thickness (16ths)	If Lapped Breadth (Inches)	If Lapped For what Length (Feet)
Flat Plate Keel (If Bar Keel, state Riveting.)	Bar keel																
Garboard or A Strake	32	7	6	6	32	7					D full L	3/4	2 5/8	9 3/4	8		
B „		6	6	6		6	Double	4½	3/4	3	„	„	„			5	Full
C „		6	6	6		6	„	„	„	„	„	„	„			„	„
D „		7	6	6		7	„	„	„	„	„	„	„			„	„
E „		6	6	6		6	„	„	„	„	„	„	„			„	„
Sheer F „	36	8	6	6	36	8	„	„	„	„	„	„	„	9 3/4	9		
G „																	
H „																	
J „																	
K „																	
L „																	
M „																	
N „																	
O „																	
P „																	
Q „																	
R „																	
S „																	
T „																	
U „																	
V „																	
W „																	
Th'kness of Sh'rstrke clear of Long Bridge	✓																
Do. of Strake below	✓																
Dbl'g. of Flat Plate Keel	✓																
„ Sheerstrakes Length and thickness.	✓																
Poop Sides	✓																
Short Bridge Sides	✓																
Forecastle Sides			5-6/16														

State actual thickness in way of Double Bottom.

Write "Bridge Sheer Strake" and "Upper Deck Sheer Strake" opposite the corresponding letter.

*Where a long bridge is fitted the thickness of Upper Deck Sheerstrake and Strake below should also be stated clear of same.

Upper Deck Stringer Plate { Butts, D'ble riveted for full length ~~amidship~~. / Straps, ~~single, double or~~ overlapped for full length ~~amidship~~.

Second Deck Stringer Plate { Butts, ✓ riveted for ✓ length amidship. / Straps, single or overlapped for ✓ length amidship.

Butts of Side Stringers Treble riveted.

„ Tie Plates Double riveted.

Inner Bottom Plating, riveting of Edges ✓ Butts ✓

Centre Girder Butts, ✓ riveted Keelson Butts, Treble riveted.

Frames, riveted through Plates with 3/4 in. Rivets, about 5" apart.

Rivets, state whether Iron or Steel Iron.

FRAMES extend in one length from keel to deck State if ordinary or joggled Ordinary.

REVERSED FRAMES on floors and frames extend ~~from~~ across top of floors. (Single angle frames.) State if ordinary or joggled Ordinary.

MASTS, SPARS, &c.

	Material.	Total Length.	Diameter and Thickness: At Partners.	Heel.	Hounds.	Head.	No. of Plates in round.	Angles: Number.	Angles: Size.	Riveting: Seams.	Riveting: Butts.
Lower Masts Fore											
Lower Masts Main											
Lower Masts Mizen											
Bowsprit											

Topmasts, ~~Yards~~ and Remainder of Spars

Rigging, Material and Size, Shrouds Stays

Sails. One Suit of Sails, and the following spare sails ✓

Form No. 14.

WED. JUL. 26. 1911

EQUIPMENT No. ✓ LETTER ✓ ANCHORS. ~~TONNAGE U. DK. OR~~ PLATING No. FOR TRAWLERS 4035 ✓

Number of Certificate.	Anchors.	Weight, Ex. Stock: Cwts.	qrs.	lbs.	Weight of Stock: Cwts.	qrs.	lbs.	Test, per Certificate: Tons.	cwts.	qrs.	lbs.	Weight Required by Table 31: Cwts.	qrs.	lbs.	Description of Anchor. (If Patent state Name of Patentee.)	Makers.	Where and when tested and Superintendent. (If Stockless, state Mechanical Tests.)
9073	1st Bower	5	0	4	1	1	8	7	7	2	0	5	0	0	Rodgers	Jones & Lloyd	L.P.H.-C.H. 25-5-11. Paul.
9074	2nd „	4	2	20	1	0	20	7	0	0	0	4	2	0	„	„ „	„ „ 25-5-11. „
9075	3rd „	2	2	–	–	2	22	5	0	0	0	2	2	–	„	„ „	„ „ 25-5-11. „
	4th „																
	Collective weight																
	Stream																
	Kedge																

CHAIN CABLES.

Number of Certificate.	Length and size supplied: Length (Fathoms)	Diam. (Ins.)	Test per Certificate: Statutory (Tons)	Breaking (Tons)	Weight of Chain Cable: Supplied (Cwts. qrs. lbs.)	Per Rule (Cwts. qrs. lbs.)	Length and Size per Table 31: Length (Fathoms)	Diam. (Ins.)	Description.	Makers of Cables.	Where and when tested, and Superintendent.
9385	90	1	18	27	45-3-20	45-3-17	90	1	Stud Link	Not stated.	L.P.H.-C.H. 10-6-11 A. C. Paul. Sup.
Iron Stream Chain or Steel Wire	✓	Cir.						Cir.			

HAWSERS AND WARPS.

Material	Length and Size supplied: Length (Fathoms)	Cir. (Ins.)	Breaking Test of Steel Wire Towline (Tons)	Length and Size per Table 31: Length (Fathoms)	Cir. (Ins)
Towline	✓				
Hawsers & Warps	60	5½		60	5½
Manilla „ „	60	4		60	4
„ „	✓				

Boats One Steering Gear, Steam ✓ Steering Gear, Hand Cochranes.

Pumps, Number Three Diameter of Barrel 6"–4". State whether they are in efficient working order Yes

Windlass is by Gt. Central Co-op. Eng. & Rep. Co. Capstan ✓

Engine Room Skylights.—How constructed? Of Steel. What arrangements for deadlights in bad weather? Steel flaps & bullseyes.

Coal Bunker Openings.—How constructed? Plates and angles and cast-iron rings. How are lids secured? Battened down and screwed. Height above deck? 12" and flush

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. On each side, 5 Scuppers, 4 freeing ports 18" × 9".

Ceiling in Holds, thickness and material 2" pine Cargo Battens, thickness and material ✓

Cargo Hatchways.—How formed? Plates and angles Hatches, If strong and efficient? Yes 3"

State size No. 1 Hatch (Forward) 6'-0" × 3'-0" No. 2 Hatch 3'-0" × 3'-0" No. 3 Hatch 3'-0" × 3'-0" No. 4 Hatch 3'-0" × 3'-0".

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch ✓

No. of Breasthooks Three No. of Crutches 1 and deep floors

Bulwarks, height above deck and description 3'-6" × 6.5/16 Main Rail, material and size 6½ × 3" × 8/20 Steel B.A.

The foregoing is a correct description.

Builder's Signature (here only) Cochrane & Sons *Surveyor's Signature* Allison B. Wilson.
Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (*Reference should be made in any correspondence connected with the case*)
(M.) 13-2-11. (E.) 1-4-11.

Workmanship. Are the butts of plating planed or otherwise fitted? Planed.

Is the riveted work properly closed? Yes

Are the liners between the frames and plates solid single pieces? Yes Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes Do any rivets break into or through the seams or butts of the plating? A few.

Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Trawler State results of tests ✓

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Trawler State results of tests ✓

General Remarks (State quality of workmanship, &c.) Workmanship good.
This vessel has been built in accordance with the approved plans, the Secretary's letters of the above dates, and in general conformity to the Rules for the class contemplated.

Accompanying this Report:- Plans of Midship Section, Profile and Decks, Pumping Arrangements, and Report on Ships Forgings.

This vessel has left for Grimsby where her Machinery will be fitted. In order to complete the survey, the masts and rigging require to be fitted, the engine and boiler casings riveted, and the deck in way of the same relaid and caulked. The Grimsby Surveyors have been advised of the above.

The Surveyor should state the Number of Report and Name of any Sister Vessel.

		Fees applied for, 25-7-1911 / Received by me, 27-7-1911
The amount of Entry Fee	£ 1 : – : –	
Special Survey Fee	£ 9 : 16 : –	
Travelling Expenses, if any	£ – : 16 : 6.	

Certificate to be sent to Hull *Date of issue* 14/12/11

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

I am of opinion this Vessel should be Classed ✠100 A1. "Steam Trawler."

With, or without Freeboard, as condition of Class Without.

Allison B. Wilson.
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. AUG. 25. 1911

Character assigned 100 A1
Stm Trawler

Lloyds' acct 1 Lmc 8. 11

The Surveyors are requested not to write on or below the Committee's Minute.

0277 1/2

GENERAL REMARKS—(*continued*).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. 68-0 ft., Bridge ✓ ft., Forecastle ~~20-0~~ ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (*this information is to be given as it should appear in the Register Book*) 1 Dk.

Official No. ✓; Signal Letters ✓. State if Machinery is fitted aft Yes

How are the surfaces preserved from oxidation? Inside Portland Cement and paint Outside Paint.

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors ✓

Where Fitted.		*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	✓		
Double bottom, under Engines and Boilers,	✓		
Double bottom, if under Engines only,	✓		
Double bottom, if under Boilers only,	✓		
Double bottom, forward,	✓		
		Total capacity of double bottom	✓

Where Fitted.		*Length. Feet.	Water Capacity. Tons.
Fore peak tank,	✓		
After peak tank,	✓		
Deep tank, aft,	✓		
Deep tank, forward,	✓		
Other tanks, if fitted,	✓		
(If necessary, furnish further information by sketch.)	✓		

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

State whether the above have been tested as required by the Rules ✓

Order for Special Survey No. 1866

Date 18/3/11

No. 484 in builder's yard.

Dates of Surveys held while building: 1911:- Mar. 9. 14. 16. 22, 31. Apr 12, 20. 26, 28, May 4. 10. 18. 24. June 9. 16. 26. 27. July 6. 11 –

Total No. of Visits

Surveyor's Signature Allison B. Wilson