With ~~or Without~~ Disconnected Erections.

STEEL STEAMER.

Received at London Office FRI.NOV.7—1913

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

No. 26881

Port of Hull. Last Survey Oct. 31st 1913

Date of completion of report 6th November 1913. Date, First Survey July 11th

Survey held at Selby Rig Ketch.

On the (State if Single, Twin or Screw Steamer) S.S. "HELGIAN."

CLASS "*100A1. Steam Trawler."

TONNAGE under Tonnage Deck	195.55	
Do. between Tonnage Dk. and 3rd and 4th Dk.		
Total under Upper Dk.		
Do. of Poop	13.91	
Do. of R.Q.Dk.		
Do. of Bridge House		
Do. of Forecastle	6.53	
Do. of Houses on Dk.	3.89	
Do. of excess of Hatchways		
Do. above Crown of Engine Room		
Gross Tonnage	219.56	
Less Crew Space		
Less above Crown of Engine Room		
TONNAGE FOR FEES	219.56	
Less Engine Room	116.11	
Less Navigation Spaces	8.33	
Register Tonnage *as cut on Beam*	95.14	

	FEET.
Breadth *(greatest moulded)*	21.37
Depth *of middle of length from top of keel to top of upper deck beams at side*	12.25
Transverse Number	33.62
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 1913 Launched 1st October.

By whom built Cochrane & Sons. Ltd.

Owners The Great Central Co-operative Engineering & Ship Repairing Co. Ltd.

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

Residence Grimsby.

Port belonging to Grimsby.

Destined Voyage Grimsby 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. Second Dk. Beams			No. of Tiers of Beams One

Moulded depth, ft. ✓ ins. To Bridge Dk. Round of Upper Dk. Beam, Actual 7 ins.

Dimensions of Ship per Register, Length 120.3 breadth 21.6 depth 11.5. 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.
FRAME, Angles, ~~or Tee or L Bars~~ amidships	✓4	3	·40	4	3	·40
Do. in peaks						
Do. in way of Double Bottoms at Solid Floors		✓				
" " at intermdt. Bkts.		✓				
Spacing of Frames from centre to centre amidships	✓	21			21	
" " " " from ⅛ length to Collision bulkhead in peaks						
REVERSED FRAME, Angles	✓2½	2½	·25	2½	2½	·25
Do. in way of Double Bottoms at Solid Floors		✓				
" " at intermdt. Bkts.		✓				
FRAMING, depth of girder	✓	4			4	
FLOORS, depth and thickness of Floor Plate at mid-line for ⅛ length amidships	✓16		·37	16		·37
" in way of Engine and Boiler Spaces	✓		·43			·43
" thickness at the ends of vessel	✓		·30			·30
" depth at ¼ the half breadth, as per Rule	Straight		across			
" height extended at the Bilges		On	plan.			
FLOORS in Cell. Double Bottoms		✓				
" state if flanged (top & bottom)		✓				
" Spacing of Solid floors		✓				
CENTRE GIRDER, in Dbl. bottom, dpth. & thicknss.		✓				
" " Angles, Top		✓				
" " " Bottom		✓				
" " " to Floors		✓				
" Brackets at intermdt. frmg., wdth & thknss		✓				
SIDE GIRDERS, number on each side & thickness		✓				
" " state if flanged (top and bottom)		✓				
" " Angles (top and bottom)		✓				
" " " to Floors		✓				
MARGIN PLATE, depth (exclusive of flange) and thickness		✓				
" " Angles to Outside Plating		✓				
" " " " Floors		✓				
" Brackets at intermdt. frmg., wdth & thknss		✓				
" Height of Outside Brackets above at bilge		✓				
INNER BOTTOM PLATING, breadth and thickness of **Middle Line Strake**		✓				
" " " in Engine and Boiler space		✓				
" " " Remainder in Holds	✓	✓				
BEAMS, Upper Deck, Single Angle, ~~Bulb Angle, Plate, Tee Bulb, or Channel~~	5	3	·50	5	3	·50
" In way of Long Bridge		✓				
" Spacing	✓	42			42	
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel		✓				
" Spacing		✓				
BEAMS, 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	✓	✓				
BEAMS, Forecastle Deck, Angle, ~~Bulb Angle, Plate, Tee Bulb, or Channel~~	5	3	·50	5	3	·50
" Angles on upper edge		✓				
" Spacing	✓	42			42	

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.
CENTRE LINE KEELSON, Vertical Plate above floors, ~~Through Plate, or Intercostal Plate~~ Rudder	✓7½		·43	7½		·43
" Rider Plate		✓				
" Flat Plate Keel Angles		✓				
" Horizontal Plates on Floors		✓				
" Angles ~~or Bulb Angles~~	✓4	3	·43	4	3	·43
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	·40	5	4	·40
" Intercostal Plate for length		✓				
" Attached to outside Plating with Angle	✓	✓				
SIDE STRINGERS, Number		One			One	
" " Angle	✓5	4	·40	5	4	·40
" Intercostal Plate, for length		✓				
" Attached to outside plating with Angle		✓				

Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	✓50	·31	50	·31
" " " " br'dth & thickness (in way of Bridge)	✓			
" " " Angle (clear of Bridge)	✓3 × 3	·37	3 × 3	·37
" " " Tie Plate at sides of Hatchways	✓8	·37	8	·37
" " Deck.* ~~Iron or~~ Steel, for Machinery Space and Bunkers lng.	✓35 - 31	Engined	35 - 31 plates	
" " Thickness (clear of Bridge)	✓			
" " " (in way of Bridge)	✓			
" Wood Deck. Material & thickness 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	✓			
Forecastle Deck Stringer Plate, b'dth & th'kns	30	·31	30	·31
" Angle on ditto	✓3 × 3	·37	3 × 3	·37
" Tie Plates Iron centre	✓36	·31	36	·31
" Deck. Material and thickness P. Pine	✓3		3	

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

Form No. 1A.—1m,1,12.T.

W87-0036

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	Bulb plate	✓ 7½ × 1⅝	7½ × 1⅝
STEM, moulding and thickness	Do.	✓ 7½ × 1⅝	7½ × 1⅝
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	4
„ „ „ at heel		✓ 3½ × 3	2¾ × 2¼

BULKHEADS.	Number: Vessel.	Number: Per Rule.	Thickness. Inches.	Stiffeners Horizontal: Size. Inches.	Horizontal: Spacing. Inches.	Vertical: Size. Inches.	Vertical: Spacing. Inches.	Single or Double Frames.	Height up, state deck.
W.T. BULKHEADS	4	4	·26	3 × 2½ × ·37	✓		48 / 30	Single	Dk
„ COLLISION „			·26	3 × 2½ × ·37	✓		48 / 24	Single	Dk
PARTITION „	✓								
LONGITUDINAL „	✓								

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.

RUDDER, how constructed Forged iron 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, Cargo Fleet. Palmers.

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

PLATING. / RIVETING.

~~Lower~~ EDGES, Ordinary or joggled? Ordinary

STRAKES.	As in Ship Amidship Breadth. Inches.	Amidship Thickness. Inches.	Forward Thickness. Inches.	Aft Thickness. Inches.	Per Rule Amidship Breadth. Inches.	Per Rule Thickness. Inches.	Edges Single or Double.	Breadth of Lap. Inches.	Rivets Diam. Inches.	Rivets Spacing cr. to cr. Inches.	Butts Double or Treble and for what Length.	Butts Rivets Diam. Inches.	Rivets Spacing cr. to cr. Inches.	Straps Breadth. Inches.	Straps Thickness. Inches.	If Lapped Breadth. Inches.	For what Length. Feet.
FLAT PLATE KEEL (If Bar Keel, state Riveting.)	Bar Keel						✓	✓	1	5	✓	✓	✓	✓	✓		
GARBOARD OR A Strake	32	·43	·37	·37	32	·43					D full	¾	2⅝	9¾	·54		
B „		·37	·37	·37		·37	Double	4½	¾	3	„ „ „	„	„			5	full
C „		·37	·37	·37		·37	„	„	„	„	„ „ „	„	„			„	„
D „		·43	·37	·37		·43	„	„	„	„	„ „ „	„	„			„	„
E „		·37	·37	·37		·37	„	„	„	„	„ „ „	„	„	✓		„	„
Sheer F „	36	·50	·37	·37	36	·50	„	„	„	„	„ „ „	„	„	9¾	·62	„	„
G „																	
H „																	
J „																	
K „																	
L „																	
M „																	
N „																	
O „																	
P „																	
Q „																	
R „																	
S „																	
T „																	
U „																	
V „																	
W „																	
TH'KNESS OF SH'ERSTRAKE CLEAR OF LONG BRIDGE	✓																
Do. OF STRAKE BELOW	✓																
DBLG. OF FLAT PLATE KEEL	✓																
„ Sheerstrakes (Length and thickness)	✓																
POOP SIDES	✓																
SHORT BRIDGE SIDES	✓																
FORECASTLE SIDES		·31															

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 ¾ in. Rivets, about 5 apart.

Rivets, state whether Iron ~~or Steel~~ Iron.

FRAMES extend in one length from Keel to deck

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

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.	Size.	Riveting: Seams.	Butts.
LOWER MASTS: Fore / Main / Mizen	To be fitted at Grimsby.										
Bowsprit	✓										

Topmasts, Yards and Remainder of Spars / Rigging, Material and Size, Shrouds / Sails. — To be fitted at Grimsby. Stays

Suit of Sails, and the following spare sails

Form No. 1A.

FRI. NOV. 7 - 1913

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.	Makers.	Where and when tested and Superintendent.
	1st Bower	To be supplied at Grimsby.										6	1	0			
15185	2nd	4	2	4	1	0	18	6	17	2	0	4	2	0	Rodgers.	Hingley & Sons	L.P.H. C.H. 22-10-13. Paul
15186	3rd	2	2	8	0	2	20	5	2	2	0	2	2	0	„	„	„ 22-10-13. „
	4th	✓															
	Collective weight																
	Stream	✓															
	Kedge	✓															

If Patent state Name of Patentee. If Stockless, state Mechanical Tests.

CHAIN CABLES.

Number of Certificate.	Length supplied: Fathoms.	Diam. Ins.	Test per Certificate: Statutory. Tons.	Breaking. Tons.	Weight of Chain Cable: Supplied. Cwts. qrs. lbs.	Per Rule. Cwts. qrs. lbs.	Per Table 31: Length. Fathoms.	Diam. Ins.	Description.	Makers of Cables.	Where and when tested, and Superintendent.
13805	89½	1	18	27	46-2-1	45-2-7	90	1	~~Stud~~ Links	B. Hingley & Sons	L.P.H. C.H. 22-10-13 S.C. Paul. Sup.
	See Secretary's letter dated 4-11-13.										
Iron Stream Chain or Steel Wire	✓	Cir.						Cir.			

HAWSERS AND WARPS.

Material.	Length supplied: Fathoms.	Cir. Ins.	Breaking Test of Steel Wire Towline. Tons.	Per Table 31: Length. Fathoms.	Cir. Ins.
TOWLINE	60	5½		60	5½
HAWSERS & WARPS	To be supplied at Grimsby. 40			40	4
„ „					
„ „					

Boats One

Steering Gear, Steam ✓ Steering Gear, Hand Co-operative Co.

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

Windlass is Co-operative Co., Hand and messenger Capstan ✓

Engine Room Skylights.—How constructed? 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? 18" and flush

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. On each side 5 Scuppers, 4 Freeingports 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? 3" Solid.

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 Four No. of Crutches 1 and deep floors

Bulwarks, height above deck and description 3'-9" × 6·5/16 Main Rail, material and size 6½ × 3 × ·40" Steel B.A.

The foregoing is a correct description. FOR COCHRANE & SONS LTD.

Builder's Signature (here only) J. M. Cochrane DIRECTOR.

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) (E.) 27-9-13 (M.) 27-9-1913 (M.) 4-11-13.

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 a Report on Ships Forgings.

To complete the Survey on the Hull the following remains to be done, Viz.- The engine and boiler casings and the deck in way of the same riveted, etc. The masts, spars, rigging, sails, and steam winch to be fitted. The 1st Bower anchor, and the Hawser and Warp to be supplied. The machinery will be fitted at Grimsby, for which Port the vessel has sailed.

This is a sister vessel to the "Elatian" and "Fentonian" Hull Reports No. 26576. and 25767.

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

The amount of Entry Fee £ 2 : 0 : 0

Special Survey Fee £ 11 : 0 : 0

Travelling Expenses, if any £ — : 15 : 0

Fees applied for, 6/11/1913. Received by me, 10/11/1913

Certificate to be sent to Hull Date of issue 16/4/14.

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.

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

Committee's Minute FRI. JAN. 30. 1914

Character assigned 100 A1 Stm trawler + LMC 12.13 Lloyds RBC

W877-0036 2/2

GENERAL REMARKS—(*continued*).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft.. R.Q.D. 69·75 ft.. Bridge ✓ ft.. Forecastle 20
(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 should appear in the Register Book*) 1 D K.

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 C. To
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. 2039

Date 29/8/13

No. 589 in builder's yard.

DATES of Surveys held while building: 1913:- July 11. 14. 18. 31. Aug. 15. 19. 22. 26. Sept 2. 3. 10. 12. 16. 23. 26. 30 Oct 96. 26 27. 29. 31

Total No. of Visits 2[illegible]aracter Ass

Surveyor's Signature Allison B. Wilson.